



FINANCIALTI

No. 27,522

Friday March 31 1978



growing concern about a pos

rates and recorded losses ex-

SECURITIES INDEX

OCT NOV DEC JAN FER MAR

closing 0.39 lower at 74.05.

rowed to 6.03 (6.04).

● WALL STREET closed 2.16

cent. of sales this month. It had 21 per cent. at the beginning of

lakes over the chairmanship of ICI to-morrow. The company

the year. Back Page

hroke Nkomo guerillas interest rate rise abduct hit gilts children • GILTS were affected by

Black nationalist guerillas loyal sible rise in short term interest o Mr. Joshua Nkomo, co-leader of the Patriotic Front, abducted £20 black Rhodesian schoolchildren and 12 teachers and took them over the border to

Last night. Botswana said that 184 of the children had asked to elurn to Rhodesia and transport rould be arranged.
remainder had opted to stay.

The children who are boys and girls, aged between 13 and 20, were escorted at gunpoint from legwani mission school, the Methodist Church in Rhodesia

In Salisbury, the four-man Supreme Executive Council met again without naming the planned 18-man Ministerial Council. The Rev. N. Sithole, a member of the four-man team is a former pupil of the mission school. Page 4

Barre may head new Government

President Giscard d'Estaing, who at 467.7. received M. Raymond Barre, GOLD fell \$11 to \$179; in Prime Minister, last night, has summoned a meeting of his outgoing Cabinet for to-day. STERLING fell 2.05 cents M: Barre is expected to be asked to lead the new Government which is likely to be formed carly next week. Page 3

STERLING fell 2.05 cents to \$1.8615. Its trade-weighted index was 62.2 (62.8). The dollar's weighted average narrowed to 6.03 (6.04).

Tanker depth

of Leyland regains Live radio broadcasting Parliament is to begin on market lead Minister's Question Time twice LEYLAND has regained weekly and Chancellor Denis leadership of the U.K. market Healey's Budget on April 11. from Ford with more than 28 per Rack Page.

Soccer arrests

After seeing their team heaten • THE U.S. and West Germany in the European Cup semi-final, have started detailed prepara-first leg, rampaging Liverpool tions for the Western Economic first leg, rampaging Liverpool first leg, rampaging Liverpool fans looted a cross-Channel mid-July. Relations between the terry duty-free shop and mid-July. Relations between the tripped a motorway shop at two have improved markedly. Gillingham. Kent. Up to last trade with the Soviet Union fell might there had been 23 arrests.

Cricket bar

The West Indies Cricket Board of Contracted to Kerry Packer's World Series Cricket from taking part in further matches during Australia's tour of the Caribbean.

GAS from the North Sea might be used to generate electricity. Page 8. Norway has reduced its estimates of oil production and revenue. Page 2. British estimates, Page 27

ME. MAURICE HODGSON takes over the chairmanching.

Aid for Gypsies

typsics in Britain and Ireland are to get help from a £40,000 research and education project home pay would be about £25,000, on Gypsy life under an EEC while a comparable job in the £420,000 anti-poverty programme. U.S. would give £250,000. Page 15

Briefly - -

ASLEF, the train drivers' union, has been told by an inquiry panel to sort out its grievances within British Rail's pay rises, the Treasury said. Mr. James Callaghan, Prime PRESIDENT CARTER and the

Moscow.
Mr. David Duke, Ku Klux Klan
leader, who has been served with
a deportation order, left Britain
vesterday of his own free will.
Two miners were crushed to
death at Lady Windsor colliery,
Vnystowl, Glamorgan.

Ther Heyerdahl, the Norwegian S HOUSE OF FRASER raised explorer, arrived at Djibouti pre-tax profit 30.8 per cent. to about his reed boat Tigris, four a record 136.2m, in the year to months after leaving the January 28, 1978. Page 28 and Lex Vnysybwl, Glamorgan.

CHIEF PRICE CHANGES YESTERDAY

RISES Sunge Besi 163 + 9	Marcate	RTZ 200 + 7
Berisford (S. and W.) 222 + 6 Enddle Hides.	RISES	Sungei Besi 163 + 9
Endulu Hides	Begisterd (S. and W.) 222 + 6	Union Crp 284 + 4
Gill and Duffus 222 ± 9 Gough Copper \$6 + 4 Hinton (A.) 741 + 41 Liftey (F. J. C.) 72 ± 5 Lucas Inds 275 + 7 Marchwiel 276 + 6 Pye Holdings 100 + 5 Reckitt and Colman 423 + 10 S and U Stores 121 + 31 Sutheby Parke Bernet 243 + 6 Stanley (A. G.) 123 + 10 Western Motor 93 + 5 Royal Dutch 1230 + 5 Royal Dutch 230 + 5 Groottlei 911 - 72 Cons. Gold Fld. Aust. 230 + 5 Groottlei 911 - 72 Conzine. Riotinto 188 + 13 Northern Mining 20 - 8	Riddle Hides 84 + 5	The second secon
Gough Copper S6 + 4 Treas. 12pc 1985 1017 7 1 1 1 1 1 1 1 1	Gill and Duffus 222 + 9	FALLS
Hinton (A.) 741 + 44 Excheq. 13/pc 'B6: £1123 - 3/ Lineas Inds. 275 + 5 BR.1 47 - 3 Marchwiel 276 + 6 BR.1 47 - 3 Marchwiel 276 + 6 Bridon 99 - 10 Pye Holdings 100 + 5 Reckitt and Colman 423 + 10 Southeby Parke Bernet 243 + 6 Stanley (A. G.) 123 + 6 Stanley (A. G.) 123 + 10 Western Motor 93 + 5 Royal Dutch 1464 + 14 Berjuntal 230 + 5 Conzine. Riotinto 188 + 13 Northern Mining 30 - 8	Couch Copper 56 + 4	Treas. 12pc 1983
Lilley (F. J. C.). 72 + 5 Lucas Inds. 275 + 7 Lucas Inds. 276 + 6 Narchwiel 276 + 6 Pye Holdings 190 + 5 Reckitt and Colman 423 + 10 Sund U Stores 121 + 31 Sutheby Parke Bernet 243 + 6 Stanley (A. G.) 123 + 10 Western Motor 93 + 5 Western Motor 93 + 5 Royal Dutch 230 + 5 Cons. Gold Fld. Aust. 230 + 5 Conzine. Riotinto 188 + 13 Conzine. Riotint	Hinton (A.) 743 + 43	Exchen, 131nc '96:£1123 - 3
Lucas Inds	Lilley (F. J. C.) 42 4 5	Aurora IIIdes 94 - 4
Narchwiel 276 + 6 Rridon 39 - 10	Lucas Inds 275 + 7	RR1 47 - 3
Pyc Holdings	Norchwiel 276 + 6	Bridon 99 - 10
Reckitt and Colman 423 + 10 House of Lerose 57 - 4 S and U Stores 121 + 31 Martin (R. P.) 54 - 8 Sutheby Parke Bernet 243 + 6 Primrose Ind. Hidgs. 78 - 6 Stanley (A. G.) 123 + 10 Rotark 113 - 7 Western Motor 93 + 5 UDT 40 - 3 Royal Dutch 230 + 5 Durban Deep 232 - 12 Cans. Gold Fld. Aust. 230 + 5 Grootfeli 911 - 71 Conzinc. Riotinto 188 + 13 Northern Mining 30 - 8	Pyc Holdings 190 + 5	House of Fraser 145 - 5
Sutheby Parke Bernet 243 + 6 Primrose Ind. Hidgs. 78 - 6	Reckitt and Colman 428: + 10	House of Lerosc 57 - 4
Stanley (A. G.) 123 + 10 Rotork 113 - 7	S and U Stores 121 + 31	Martin (R. P.) 54 - 8
Western Motor		Primrose Ind. Hldgs. 78 - 6
Royal Dutch	Stanley (A. G.) 123 + 10	Rotork 113 - 7
Royal Dutch	Western Motor 93 + 5	UDT 40 - 3
Berjuntal 230 + 5 Durban Deep 232 - 72 Cans. Gold Fld. Aust. 230 + 5 Groottlei 914 - 72 Conzinc. Riotinto : 188 + 13 Northern Mining 20 - 8	Royal Duich	Wagon Finance 91 - 6
Cons. Gold Fld. Aust. 230 + 5 Grootelet	Beriuntal	Durban Deep 332 - 12
	Cons. Gold Fld. Aust. 230 + 5	Grooteles 914 - 75
제계 Hidgs 163 + 13 Ventersposi 190 - 18		Northern Mining 30 = 8
	MIN Hidgs 163 + 13	Venterspost 190 - 19

City launches new securities body to control standards

BY MARGARET REID

A new voluntary system for the regulation of London's securities markets was launched yesterday under the aegis of the Bank of England. The new body, to be known as the Council for the Securities Industry, is to be headed, as expected, by Mr. Patrick Neill.

Mr. Neill, who is 51, is the Warden of All Souls College, Oxford, and chairman-designate of the Press Council.

The securities council is the outcome of an attempt by the City to fend off the possibility of a legally-based supervisory authority on the U.S. model. Eighteen months ago the Government issued a call for an improved

system of voluntary supervision. Maintenance of the highest ethical standards in conducting business in the securities industry is the first of a number of objectives of the 20-member body listed by the Bank of

England yesterday.
The council, whose launching has been blessed by Ministers, will be backed by the various tending to 1. The Government Confederation of British Indus-Securities index fell for the try, in spite of protests by some much as at present, but perhaps fourth successive trading day.

A levy of 60p on deals of over The various City bodies will ment briefs,000 in U.K. stocks and shares make some contribution to the instead is to provide the bulk of the cost and the Bank of England Superior Su • EQUITIES were subdued by interest rates fears. The FT 1600,000 annual cost of the will stand ready to make up any council, including the City Take-shortfall in the financing.

Over Panel, which will continue Lord Shawcross, the former Editorial Comment, Page 18 30-share index closed 0.4 lower



the council.

Attorney-General who is 76 and has been chairman of the panel throughout its nine-year life, is to remain in that role and will be a member of the new counci Heavier duties will fall on Sir

Alexander Johnston, 72, the one-time chairman of the Board of Inland Revenue, who is deputy chairman of the panel. He will also take on the job of deputy chairman of the new council and so will provide an important link between the two bodies,

Much remains to be defined about the exact method of operation of the council, which is expected to meet at least once a quarter, and the way in which complaints or problems would come to it.

Matters within its ambit are likely to include cases of alleged try, in spite of protests by some much as at present, but perhaps insider trading and objectionable Labour MPs at its lack of legal with wider duties as an arm of share deals by directors of compowers. panies, at least until the Government brings forward its intended legislation relating to these

Supervision of the securities

Weizman mission fails to revive peace talks

mate in the situation continues until Israel changes her position and progress is achieved." in the situation continues

the military and political commit-tees, set up after Mr. Sadat's not resume their work. Continued deadlock seemed a

Israeli Government's decision those in Sinai. not to after the peace plan which GAS from the North Sea might

French naval helicopters depthcharged the wrecked supercharged the wrecked supersecond successive day in the
super day of draining any remaining oil. Six British ships patrolled
south of Guernsey as oil patches
south of Guern

sation — to participate in talks were also attended by General about the future of the West Mohammed Abdel-Ghani Gamassi. Until Israel shifted its stance, for five years the question of In the continued absence the military and political committees set up after Mr. Sadar's sovereignty over the terirlory. Jordan and Syria from peace initiative and mission to adamant that the Israelis should believed that the Israeli Defence withdraw from all Arab territories occupied in 1967 and that on them falling short of a full peace
should be dismartled to receive that the Israeli Defence
Minister might have been probtories occupied in 1967 and that in the Israeli Defence
ing the possibility of a pact
falling short of a full peace

not to after the peace pian which it presented just before Christmas—particularly on the question of Palestinian self-determination—or to agree to abandon aligned it was officially treated in a line between the two states.

Arab territories.

In Israel, the view was that extension of the U.N. buffer zone and a large-scale Israeli with was an exploratory one. It was mationally recognised boundary emphasised by the fact that his articularly recognised boundary visit was officially treated in a line between the two states.

More Middle East news Page 4

Mr. Menahem Begin. the he had departed.

Prime Minister had hoped that The Egyptian Government is

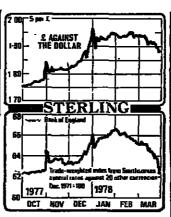
January.

After two hours of talks, an Egyptian official said: "The stale-mate in the situation continues in the situation continues."

After two hours of talks, an allow Palestinians—though not tion of Jewish settlements would the Palestine Liberation Organible a matter of priority. The talks the Palestine Liberation Organible a matter of priority. The talks the Palestine Liberation Organible and the Pal

In the continued absence of foregone conclusion after the should be dismantled, especially agreement — involving further largell Governments decision those in Signi in Israel, the view was that extension of the U.N. buffer zone

Troubles build up for Sadat Page 18



Pound falls

By Peter Riddell, Economics

STERLING fell sharply yesterday in face of beavy and persistent selling in the after-noon. The trade-weighted index closed at its lowest level since August.

The pound declined by 2.05 cents during the day to \$1.8615, the lowest closing level since mid-December, after touching a low of \$1.8587}. It improved a little in New York later to close at \$1.86571. The trade-weighted index

The trade-weighted index declined by 0.6 to 62.2, below the level when the pound was allowed to float freely in October. This compares with 63.9 a week ago and represents a decline of 61 per cent. since the peak at the end of January.
Dealers said there was no significant attempt by the

authorities to halt the decline which they attributed partly to increased concern about the U.K.'s current account pros-pects later this year, while the pessimistic assessment of the medium-term outlook from the Cambridge economic policy group may have influenced

sentiment.

The decline in sterling in the last few days may have been affected as much by market reaction to the stabilisation of the dollar against the stronger European currencies and also the removal of immediate fears about the French franc after the recent elections. Consequently, operators who had built up sterling dollar may be switching out

The sizeable decline in the trade-weighted index in the last two months is a mixed blessing for the authorities. On the one hand, the fall cases some of the growing concern earlier this year in industry and in Whitehall about the erosion of the competitive position of U.K. goods. Sterling for example, lower against the West German mark than at the worst period of autumn 1976.

However, the fall in sterling also means that the 10-month decline in the cost of indusalmost certainly over

BP to invest a record £1.25bn.

BY RAY DAFTER, ENERGY CORRESPONDENT

BRITISH PETROLEUM expects to invest a record £125bn. this year. 57 per cent. more than would also end a ban on Board last year. About half the money will be spent in the U.K., particularly on offshore exploration and production.

The investment programme, outlined yesterday by Sir David a Sobio director will eventually steel, chairman of BP, means that the company is returning to BP's stake in Sobio grows as

that the company is returning to the record levels of expenditure the flow of oil through the Trans-during 1976 when the develop- Alaskan pipeline builds up. By ment of the Trans-Alaskan pipe this summer the volume should line and the big Forties Field in reach 1.2m barrels a day, civing the North Sea accounted for the BP a 51 per cent, interest in the bulk of the £1bn. spent.

U.S. company. Solne would be

About £500m. is earmarked for consolidated into BP's accounts, oil and gas exploration and production this year. The annual report confirms that BP is planning to spend £1.25bn. over the next few years on the development of the Magnus Field in the North Sea.

U.S. company. Sonto would be company.

LUS. managed company.

BP Chemicals investment,

Page 7

Men and Mailers, Page 18 n the North Sea.

However, capital allowances for the Magnus development can be claimed against the Forties Field tax bill. Sir David said that about

Sir David said that about £200m, would be invested at a number of the company's BP had been involved in inforrefineries. Although the in-mal and unofficial talks about dustry had been hit by serious the State of Alaska's possible refining over-capacity in Europe involvement in the pipeline sys—a problem, he said, which had tem. The group has a 15.84 per to be tackled by both governments and companies—there with Sohio holding a further was a need for more facilities 33.34 per cent, stake.

It was important to prepare director said that the possibility

Of the remaining planned income initially from the State of vestment, about £200m. would Alaska.

go into the group's marketing operations and a further signs that a trans-U.S. pipeline £200m on expanding chemical would be completed to carry activities.

East Nr. Adam added

sphere of operations.

However the company lanning to change noval meeting on May 7 to table of modern and one aimed at lifting plans

non-British directors "It is an obus on our people to produce bits of

and it is right that we should I in New York be seen as such

While there was no "imine-diate intention" of appointing foreign directors, it was recogised that at some future date Board member from outside the U.K. might provide valuable

BP's stake in Sohio grows as

Men and Matters, Page 18 North Sea Oil problems, Page 27 Annual report, Page 30

Lex. Back Page

It was important to prepare director, said that the possibility refineries for the day when oil of a State involvement in the would be scarcer and more expipeline had been known about pensive and reserved primarily since 1970. BP had always been for chemical manufacturing and interested in such a proposal transport needs.

However, any proposal must

Alaskan crude from the West Coast, Mr. Adam added.

In the meantime, Sohio and BP had taken steps to carry much of the oil to the East Coast via the Panama Canal. "One doesn't envisage oil being left in the ground," although it was recognised that the West Coast recognised the West Coast recognised that the West Coast recognised the West C aione could not absorb all the Alaskan output.

In the U.K., Sir David said that citicles BP was now spending \$4m. a of association to reflect its grow year merely on providing the ing international image. Share Government with information holders will be asked at the about its husiness operations, annual meeting on May 4 to taxation liabilities and North Sea

of the company.

Who have to produce bits of paper but who are never quite to say a director of this com-pany must be British." said Sir David. "We are international

\$1,8650-1,8665 0,05 n/s-0,05 pr (0,05-0,02 n/s 0,80-0,65 n/s

Zambia cuts sales of copper

BY MICHAEL HOLMAN

ZAMBIA. the world's second-largest copper exporter, announced to-day that it had been forced to cut all sales negotiated for 1978 by 15 per cent., starting with deliveries for May. Deliveries under long-term contracts to Western Europe (including Britain), Japan, India and China will be affected.

In announcing the force

10,000 tonnes are believed to be Zambia was going to declare force majeure, even though it had been force mojeure, even though it had been anticipated for some time.

90,000-tonne backlog of Zambian But values eased in later trading imports at Dar, which now when the cut was announced at handles nine-tenths of Zambia's 15 per cent., starting from May, trade. The backlog is due to inside the market had been force adequate handling facilities, a casting a reduction of at least 20 shortage of wagons on the Tanganian Railway, and a scarcity of trucks on the road Zambian output of 650,000 tonnes link between the two countries.—the lowest level for ten years annual report shows the chairman's salary was 195,000 last year. Mr. Hodgson said his take-

In announcing the force majeure declaration, the country's metal-marketing corporation (Memaco) blamed "production and transport constraints" which would take straints" which would take a shortage, and high turnover, of copper estimated to exceed skilled expatriate workers. About 2m. tonnes, with nearly 600.000 tonnes are due to force they reach Zambia. Just over 8,100 tonnes a month. The position difficulties include This compares with world stocks a shortage, and high turnover, of copper estimated to exceed skilled expatriate workers. About 2m. tonnes, with nearly 600.000 Minister, arrived back in London president of United States Steel after spending a week in clashed publicly over the 2 per Washington.

Twelve passengers were injured the company announced on Wed-in a rail accident on Southern Region's Waterloo to Basing-stoke line.

Olga Korbut, 22, the Soviet companies producing "low" tech-nology drugs to reduce their coupling the sport, it was reported in diaries to 40 per cent. Page 33 Land-locked Zambia's trans 4,000 are working on the copper tonnes in the London Metal belt. between 500 and 1,000 short Exchange warehouses in Europe. There is thus no shortage of months aggravated by the country's foreign exchange and copper supplies. But prices have closure of previous export routes transport problems have led to a risen by nearly £100 a tonne to shortage of spares and equipmore than £700 a tonne in the past six of requirements. In addition, the country's foreign exchange and copper supplies. But prices have risen by nearly £100 a tonne to shortage of spares and equipmore than £700 a tonne in the past six of requirements. In addition, the country's foreign exchange and copper supplies. But prices have risen by nearly £100 a tonne to the past six of requirements. In addition, the country's foreign exchange and copper supplies. But prices have risen by nearly £100 a tonne to the past six of requirements. In addition, the country's foreign exchange and copper supplies. But prices have risen by nearly £100 a tonne to the past six of requirements. In addition, the country's foreign exchange and copper supplies. But prices have risen by nearly £100 a tonne to the past six of requirements. In addition, the country's foreign exchange and copper supplies. But prices have risen by nearly £100 a tonne to the past six of requirements. In addition, the country's foreign exchange and copper supplies. But prices have risen by nearly £100 a tonne to the country's foreign exchange and copper supplies. But prices have risen by nearly £100 a tonne to the country's foreign exchange and copper supplies. But prices have risen by nearly £100 a tonne to the country's foreign exchange and copper supplies. But prices have risen by nearly £100 a tonne to the country's foreign exchange and copper supplies. But prices have risen by nearly £100 a tonne to the country's foreign exchange and copper supplies. But prices have risen by nearly £100 a tonne to the country is the country in the country is the country in the count Rhodesia. Officials at the Tanzan ment.

and port of Dar-es-Salaam John Edwards, Commodities production and sales cuts by pro
estimated that at least 50,000 Editor, writes: Copper prices ducers suffering heavy losses at
tonnes of Zambian copper are jumped sharply on the London present market price levels.

beld up there, while a further Metal Exchange on the news that

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past month in anticipation of
past month in anticipation of

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Trouble brewing up for Mr. beneath the surface 27 Greece: Karamanlis and his opposition

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(So. F. T. E.)

Societé Anonyme-Luxembourg USS DEBENTURE LOAN WITH A COUPON OF 7.75% 1970/1985

(Guaranteed by STET)

So.F.T.E. having already acquired under the Terms of the Loan. 1,650 bonds of a face value of \$1000 each on the market, of the eighth redemption instalment due on May 1, 1978, Banco di Roma, in its capacity as Paying Agent has drawn lots on the issuer's behalf in accordance with the Sinking Fund Scheme for the remaining 1,650 bonds necessary to cover the entire redemption instalment.

The draw was on March 8, 1978, in the presence of a solicitor and representatives from the Issuing Company and

BONDS DRAWN FOR REDEMPTION MAY 1, 1978

The bonds indicated above for redemption will expire and be made payable as from May 1, 1978, in US dollars for the entire nominal capital plus interests accrued up to that date. They must be presented for redemption with all coupons expiring after May 1, 1978, at the following Institutes:

—BANCO DI ROMA

—MANUFACTURERS HANOVER TRUST COMPANY

-S. G. WARBURG & CO. LIMITED -BANQUE INTERNATIONALE A LUXEMBOURG

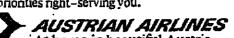
Rome, 9 March, 1978.

BANCO DI ROMA Paying Agent

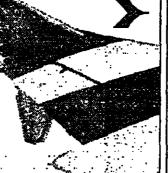
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EUROPEAN NEWS

(aramanlis and his opposition

The problems at home

BY OUR ATHENS CORRESPONDENT

WITH A first step having been differed very little from those possibility that Pasok may ask made towards detente between of the Karamanlis administratory for a referendum on the issue 15 Greece and Turkey, Mr. Constantion, in the last election its share not excluded; to counter this time Karamanlis, the Greek of the rate fell from 20 per cent. prospect, the Government has tine Karamanlis, the Greek of the rate fell from 20 per cent, prospect, the covernment in the Prime Minister, has turned his to 12 per cent. Moreover the embarked on a campaign to attention to pressing problems at party is rent by an internal convince Greeks of the advantage. In its 40 months in power struggle.

held after the end of military financial attractions.

Ment this year, dictatorship. But because of its. There are those who believe To stimulate investments the failure to establish a clear ideo that Pasok is likely to further Government recently announced logical position and because its use the issue of EEC membership new incentives, based on a policies on many major issues to carry popular favour. The system of direct cash grants to

Sovember's election, its share of the vote fell from 54 to 42 per and also Mr. Ioannis-Pesmanglu, social problems in an impromning the vote fell from 54 to 42 per and also Mr. Ioannis-Pesmanglu, social problems in an impromning to the vote fell from 54 to 42 per and also Mr. Ioannis-Pesmanglu, social problems in an impromning to the vote fell from 54 to 42 per and also Mr. Ioannis-Pesmanglu, social problems in an impromning to the vote follower of the sex in the 300-member house from 218 to 172.

Political analysis are agreed Mr. Andreas Papandreou, defeated Mr. Kara-dreas Papandreou's papandreou's defeated Mr. Kara-dreas Papandreou's papandreou's defeated Mr. Kara-dreas Papandreou's papandreou's defeated Mr. Kara-dreas of the vote doubled, whose share of the vote doubled, the main opposition parties once more is anxious to the seem-dreas once more is anxious to reorganise his own party to stoo opposition parties once more is anxious to reorganise his own party to stoo opposition parties once more is anxious to reorganise his own party to stoo opposition parties once more is anxious to reorganise his own party to stoo opposition parties once more is anxious to reorganise his own party to stoo opposition parties once more is anxious to reorganise his own party to stoo opposition parties once more is anxious to reorganise his own party to stoo opposition parties once more is anxious to reorganise his own party to stoo opposition parties once more is anxious to reorganise

attention to pressing problems at party is rent by an internal convince Greeks of the average home. In its 40 months in power struggle.

power, his New Democracy party

There are now persistent Mr. Papandreou has accused has lost much of its lustre, reports that Mr. Karamanits the government of failing to largely because of its apparent plans to resbuffle his Cabinet implement a consistent and cominability to deal effectively with early this summer to take in prehensive policy of economic social, administrative and dissatisfied members of Edyk, indevelopment, of being unable to economic problems. In last cluding Mr. Athanassios Canelloput a proper five-year programme. November's election, its share of poulos, the former head of Edyk, into effect, and of dealing with the vote fell from 54 to 42 per and also Mr. Ioannis Pesmazoglu, social problems in an impromptu





Robert Graham reports from Madrid on modern Spain's first works council elections, and Our Foreign Staff (below) assesses labour relations in a key northern region.

Communist union victor in factory elections

WITH THE majority of the elections for trade union works councils now complete, the Communist-controlled Confederation of Workers' Commissions (CCOO) and the Socialist-orientated General Workers' Union (UGT) have emerged with three quarters

of the members. Of these two dominant unions, despite con-flicting overall statistics, the CCOO appears the clear victor. These elections are the first since the unions were legalised last April, although in some

larger factories temporary elections were held for the purpose of negotiating 1978. The elections were initiated in January and have now covered 3.4m. workers. The active workforce in Spain is

approximately 8m., but union sources estimate that the elecsources estimate that the elec-tions will only cover some 4m. since the remainder are either excluded because they are members of the administration or the armed forces, anem-

THE Government of Sr. Adolfo Suarez has been strikingly successful in maintaining the 22 per cent. guideline set for wage increases in Spain this year. In the key north-eastern industrial province of Catalonia, in particular, there have been notably few problems in maintaining the guideline. Labour unrest among Asturian miners and metal guideline. Labour unrest among
Asturian miners and metal trade union activity. This has General Workers Union, In
workers in Asturias Madrid, and
the Basque country, is now
Hispano-Olivetti the typewriter sions supporters tend to be
growing. But the Catalan labour company, and motor manufactended trade unionists, where
the General Workers Union
the General Workers Union. In force remains quiescent.

Following last year's major striwes, this has caused wide-spread surprise. It has done so all the more because the con-troversial "retroactive" clause in the so-called Moncloa pactsthe agreement laying down the 22 per cent. guideline—has affected Barcelona province, the hub of Catalan industry, with particular severity. The clause provided for the ceiling also to apply to wage deals on which negotiations had begun before it was signed.

Indeed, such industrial action as there has been recently in Catalonia has, in practically no cases, been against the Moncloa guideline. There have however due to the strong backing given lonia's hard-pressed industry is to the Moncloa accords by the faring much better than had PSUC, the Catalan Communist been widely expected on the neen some disputes-notably at the Siemens factory-about the interpretation of the accord, parparty, and also to the strong wages front, it is suffering ticularly since January 24, when hold it has on the union movethe government ruled that ment and working class in the of adjusting maining levels set increases in employees social area. The Spanish Communist in the boom years before 1975 to security payments would count and Socialist Parties at national the current crisis conditions. level both were parties to the Monclos accords.

Another major cause of disputes has been refusal by some elections, the Communist-backed employers to grant a "labour Workers Commissions secured amount order books, guaranteeing a sacked for political reasons or gates as the Socialist-backed average, investment still falling.

ployed in companies employing under six people, or agricultural workers.

According to figures com-piled by the Ministry of Labour up to March 25, the CCOO has gained 35 per cent. of total council seats and the UGT 22 per cent. Less complete and differing figures com-piled by the news agency EFE show the CCOO with 37 per cent. and UGT 31 per cent. The two unions themselves provide further set of conflicting

Sr. Nicolas Redondo, UGT secretary-general, told the Financial Times that he still believed that the majority of candidates elected so far belonged to his union.

A CCOO spokesman told the FT it was prepared to accept the Ministry of Labour results but pointed out that in many factories which employed fewer than 250 people (this involves the majority of the country's workforce) CCOO

A police sergeant was seriously

wounded in the north-western

town of Pontevedra yesterday

in a gunlight with two youths

believed to be members of an extreme left-wing guerilla group, police sources told Reuter. They said the youths

were travelling in a stolen car and were stopped after a chase. One of the youths was injured.

Both were captured by police

who sald later that they had

discovered propaganda in the car belonging to the Grapo anti-Fascist group.

Welcome quiet on

the Catalan front

members had been elected but not on a CCOO ticket.

On this basis, the CCOO estimated it held 40-45 per cent. of the total council seats. Despite these discrepancies, there is a clear trend; a pro-dominance of CCOO and UGT with the former emerging as the most significant union force in Spain.

The impression gained from the UGT is that it has been disappointed by its inability to obtain more candidates. Hopes had been based upon the union's association with the Socialist Party and the latter's showing in last June's general election.

Most observers believe that the better organisation and strong record of activity of the CCOO during the Franco regime, when unions were illegal, enabled it to emerge the victor. The Ministry of Labour figures understate the real strength of the CCOO showing. In Madrid and Barcelona,

Also providing some disincen-

factory where wages rise by more

than 22 per cent, management is entitled to cut the workforce

by 5 per cent. But apart from this,

revision of the Francoist employ-ment laws which make it ex-

tremely difficult to shed labour. Such revision was blocked by the

Communist and Socialist parties

apprehensive about the mass

redundancies they thought might

result-in return for supporting

the 22 per cent. guideline. In consequence, though Cata-

severely from the actue difficulty

These conditions continue to

MADRID, March 30. where the greatest proportion

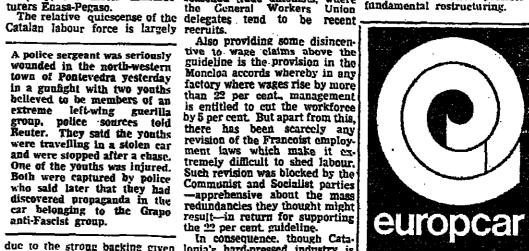
of the industrial workforce is concentrated, the Communist-controlled union obtained an average of almost 42 per cent. of the vote. In the province of Vizcaya, the main industrial area of the Basque country and the other

region of industrial signifi-cance, the CCOO and UGT vote was croded by local issues. The Basque Nationalist Union, ETA won 11 per cent, of the vote. Throughout the country, the remaining vote has mainly been accounted for by independent candidates.

A large number of small companies still has to hold elections. But this is unlikely to alter the general picture. Voting, too, has to take place in the country's largest employers, the state railway company, Renfe, and the telephone company. Telefonica.
The delay here has been caused by the workers preferring first to negotiate their 1978 wage agreement.

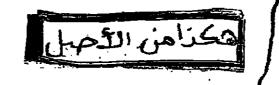
and internal demand showing no

signs of picking up. Particularly hard hit is the bighly fragmented textile sector, currently operating at about 50 per cent. of capacity, with about 400 firms having sone bankrupt in the past two years. The sector is both technologically antiquated and excessively frag-mented; and employers complain that they need more freedom to shed labour to make possible a fundamental restructuring.



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Bonn welcomes effect of U.S. accord on markets

SENIOR West German Govern- the sums already agreed between absence there of any direct ment officials believe that this the two countries in January reference to it was one factor month's accord with the U.S. on had not been used up.

The essence of the issue was market reaction. steps to help stabilise the dollar fulfilling its objective and is fulfilling its objective and that there is a fair chance of a readiness to enlarge the scope relative calm in cosning months on the exchange markets.

This assessment is in large measure shared by the Bundeshank. It reflects strong West German side was so positive to support its currency and to attack the basic problems underlying the dollar's fail.

The essence of the issue was market reaction.

Herr Lahnstein said the German said the German side was so positive to on the bonds issue and "we show you cared about the proportion on the bonds issue and "we show you cared about the proport

lying the dollar's fall.

In an interview, State Secretary Manifed Lahnstein of the might now be ready to sell gold.

Finance Ministry stressed that

finance Ministry stressed that But he did describe suggesthe sums involved in the new tions that the U.S. might sell accord (including a doubling of foreign-denominated bonds as the federal reserve swap arrange—not a practical issue for the time ment with the Bundesbank) were being. There was widespread not in themselves the key factor. speculation that such action was Had they been, no new accord in the offing before the March would have been needed since accord was announced. The

Hope in IG-Metal dispute A GLIMMER of light in the job classification that would pre-

in the North Wuerttemberg— while thousands of lawsuits understands better than before North Baden region. This is the against the employers use of the that we face a complicated situademand of the engineering in-lockout have now been brought tion which cannot be solved just dustry union. IG-Metall, for by individual workers in the by pressing a button—on one guarantees of job security and of labour courts.

letter

of Moro doubted

ROME, March 30.

Authenticity

am relatively optimistic."

He stressed that the accord was both an economic and a more and a more

in various major Italian cities, In common with other German including Rome, Milan, Turin and A GLIMMER of light in the job classification that would presouth west German engineering vent men in skilled occupations Government officials he was Genoa, together with a so-called industry dispute appeared this from being put back late lower quick to contradict the thesis "third communique" from the afternoon, after both union and wage categories as a result of that an attack on inflation in the Brigades.

afternoon, after both union and wage categories as a result of that an attack on infation in the Red Brigades.

LISBON. March 30.

LISBON. March 3

Four years ago, when the Genoa magistrate, Sig. Mario Sossi, was kidnapped and "tried" by the Red Brigades, a letter from the magistrate addressed during his captivity to the Italian head of state set out the terms imposed by the terrorist group for his release. They involved freeing Red Brigades members in jail. Sig. Sossi was members in jail. Sig. Sossi was substantially reduced ties this year are now foreseen on oil-company forecasts. Mr. subsequently released and has substantially reduced ties this year are now foreseen on oil-company forecasts. Mr. subsequently released and has its estimates of oil production at only NKr.6bm. compared with Gjerde told the Oslo newspaper its estimates of oil production at only NKr.6bm. compared with Gjerde told the Oslo newspaper provincial councils. About half

Barre expected to remain Premier

ployers' leaders.
Though there has been

political, trade union and em- prepared before his discussions The French navy yesterday crippled oll tanker Amoco from the broken hull, our foreign staff writes. The charges were dropped from

man said the operation had

proved "most effective." Latest estimates were that up to 14,000 tons of oil were still on board the tanker yesterday. Meanwhile, clean-up opera-tions on the French heaches

continued with thousands of volunteers working alongside the military.

THE NEW French Government broadly as he emerged from the cent. to Frs.2,400 (£277) per the Government, trade unions is expected to be formed early Elysee Palace, did not, however, month, while—the Communist and employers' organisations, next week, following the extengive the impression that there leader also demanded a return Though he did not openly sive consultations which Presi had been a great meeting of to proportional representation in threaten strike action if the dent Giscard d'Estaing has had minds with the President Read-parliamentary and other CGT's demands were not satisficed trade unions. Segui warned that his political trade unions and other previously before his dispussions. elections.

fied. M. Segui warned that his
M. Marchais took advantage of union would not accept any delays once the new governmen was formed.

Meanwhile, The Gaullist Party which prides itself on its internal unity, has been shaken by a dispute over the presidency of the National Assembly, for which there are now three Gaullist can-didates. M. Jacques Chabap-Delmas, a former Prime Minish

was to counter disorderly exchange market conditions while the underlying economic conditions worked through and planned policy measures (such as energy saving) could be implemented.

He believed that in the U.S. He believed that in the urgency of an effective energy programme and an anti
worked brigates urban guernia guernia tions between the Government of Estaing's invitation in order is over, stands little chance of of Parliament, M. Chaban-Delmas and the opposition, President to explain his party's demands. being resuscitated in anything claimed that M. Chiaban-Delmas and the opposition, President to explain his party's demands. being resuscitated in anything claimed that M. Chiaban-Delmas and the opposition, President to explain his party's demands. being resuscitated in anything claimed that M. Chiaban-Delmas and the opposition, President to explain his party's demands. being resuscitated in anything claimed that M. Chiaban-Delmas and the opposition, President to explain his party's demands. being resuscitated in anything claimed that M. Chiaban-Delmas and the opposition, President to explain his party's demands. being resuscitated in anything claimed that M. Chiaban-Delmas and the opposition, President to explain his party's demands. being resuscitated in anything claimed that M. Chiaban-Delmas and the opposition, President to explain his party's demands.

Predictably, these demands like its old form.

M. Segui whose union, with the defeat at the general election on March 19. Both M. Marchais and the country, called for the country, called for the party security changed that the prevailing view suggesting that the communist-led CGT union, M. Segui insisted that the mediate opening of negotiations M. Faure at a meeting which M. Georges Seguy.

M. Marchais, who was smiling the country changed in anything claimed that M. Chiaban-Delmas and the opposition, President to explain his party is demands.

M. Segui whose union, M. Had subsequently changed that the general election on March 19. Both M. Marchais an

Dutch poll win

for Christian

energy programme and an anti-immediate execution inflationary policy was felt more Photocopies of the generally even than six months letter were found lai Photocopies of the five-page letter were found late last night Citibank opens office in Lisbon

regulating the activities of revolution.

The establishment of Citi- is believed to be the Chase Manliamentary seats, the Christian Dank's representative office here hattan Bank. Their applications Democrats would outstrip Labour constitution. Citibank will not be ing confidnce among interauthorisation from the Ministry allowed banking operations of national financial circles over of Finance.

tions will strengthen the centrist Christian Democrats' position in the administrations of the country's 11 provinces. The impact of to-day's vote will also show through in the Upper House of Parliament in 1980.

Brezhnev urges boost in energy output

Norwegians again reduce oil estimates

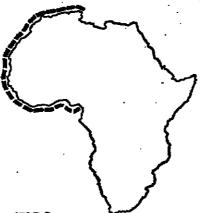
The discoveries of Africa.



The Egyptian Queen Hatshepsut dispatches an expedition to Punt, the land of incense (probably south of Cape Guardalu).



c, 600 B.C. Phoenicians sent out by Pharaoh Necho I presumably circumnavigate the entire conti-



c.470 B.C. Hanno of Carthage sails along the west coast reaching the Cameroun Mountains.



1349-52 A.D. Ibn Battuta, a native of Tangler, traverses the western Sahara as far as the Niger, and Timbukitt



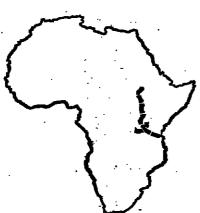
1768-73 James Bruce explores Ethicoia Nubia and the upper reaches of the Blue Nile; he scientifically determines the location of the sources near



Mungo Parks first expedition from the Gambia to the Niger. He demonstrates that the Niger flows eastward.



David Livingstone goes from Cape Town by way of the upper Zambezi to Luanda. On the way from Luanda to Quelimane in 1855 ha discovers the Victoria Falls.



Burton and Speke discover Lake Tanganyika, Speke Lake Victoria, Exploring with Grant in 1860-83 Speke tracks the



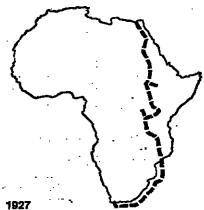
Friedrich Gerhard Rohlfs traverses North Africa from Tripoli by way of Bornu and the Benue to Lagos.



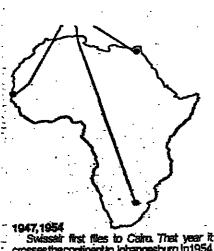
Tibesti Highlands, He visits the region of Lake Chad and returns via Wadal, Dariur, and the



Verney Cameron crosses Equatorial Africa for the first time from east to west. He travels from Zanzibar via Tabora to Lake Tanganyika, discovering the Lukuga, he reaches the Atlantic



Watter Mittelholzer takes off from Zurich on his 77-day flight through Africa. He covers it in 24 hops from Alexandria to Cape Town.



crosses the continent to Johannesburg. In 1954

it sumousts the Atlas Mountains and lands at

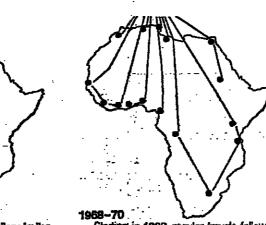
sselr reaches Lagos and Accra in the

west, in the east it goes by way of Cairo to

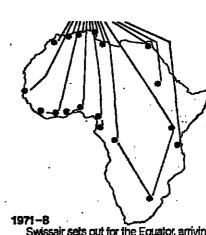
Knartoum. The following year the line from

itzetiand to Algiers is opened.

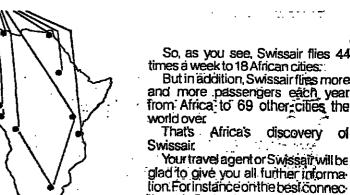




Starting in 1968, regular travels follow to Narrobi and onward to Dar-es-Salaam. In 1970 Swissair gains entry to Central Africa, linking rasa and Douala with Switzerland.



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tion Forinstance on the best connections via Switzerland.

GRANGES AB 9%% U.S. Dollar Bonds 1985

S. G. WARBURG & CO. LTD., announce that the redemption instalment of U \$.\$1,250,000 due 1st May, 1978 has been met by purchases in the market to the nominal value of U.S.\$370,000 and by a drawing of bonds to the nominal value of U.S.S880.000.

The distinctive numbers of the bonds, drawn in the presence of a Notary Public, are as

The distinctive numbers of the bonds, drawn in the presence of a Notary Public, are as follows:									
6	27	48	Sõ	90	112	132	155	175	196
217	239	260	281	301	223	344	365	367	407
429	449	472	. 497	513	535	556	576	598	619
640 952	661 974	681 995	804 7116	825 7136	847 1158	· · 858	889 1199	909 1 <i>2</i> 22	932 1242
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1787	1809	1830	1850	1872	1892	1914	1935	.1956	1977
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2642	2664	2685	2706	2727	2743	2770	2790	2810	2833
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3948	3970	3901	4011	4034	4054	4075	4096	4117	4139
4159 4371	4161 4391	4202 4414	4223 4434	4241 4456	4266 4476	4287 4498	4308. 4519	4328 4540	4351 4561
4583	4603	4625	4646	4558	4688	4708	4731	4751	4775
4796	4817	4838	4858	4888	4910	4930	4952	4973	4994
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6623	6644	6665	6689	6709	6730	6752	6773	6794	6816
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14722	14743	14552 14765	14574 14785	14594 14807	14616 14827	14637 14850	14658 14870	14678 14891	14702 14913
14934	14955	14976	14997	15019	15039	15060	15082	15102	15124
15145	15167	15187	15208	15230	15251	15271	15294	15314	15336
15356 15568	15377 15588	15399 15611	15419 15631	15441 15651	15462 15674	15483 15694	15504 15716	15526 15736	15547 15758
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	1st May 1	:							

On 1st May, 1978 there will become due and payable upon each bond, drawn for redemption, the principal amount thereof, together with accrued interest to said date af the office of:-

> S. G. WARBURG & CO. LTD., 30 Gresham Street, London EC2P 2EB

or one of the other paying agents named on the bonds.

Interest will cease to accrue on the bonds called for redemption on and after 1st May, 1978 and bonds so presented for payment must have attached all coupons maturing after that date. U.S.\$16,250 000 nominal amount of bonds will remain outstanding after 1st May, 1978. The following bonds drawn for redemption on dates stated below have not as yet been

> 1st May, 1976 No's: 4258 : 5170 : 5246 : 6810

1st May, 1977

No's: 2827 : 3009

: 3024 : 3055 : 4240 : 4255 : 4271 : 4286 : 4301 4316 : 4772 : 5061 : 5076 : 6716 : 6762 : 6807 : 6823 : 6899 7571 : 16427

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31st March, 1978

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OVERSEAS NEWS

Tunisia's economy catches a sudden chill

By Francis Ghilés, recently in

Tunisia's main exports, critide in Cape Town said they merely oil, phosphates and dive oil had contained "various clarifica-a bad year in 1977. Phosphate tions." exports picked up somewhat in. The more has come amid widevolume but hardly in price; the spread fear, that the South decline in the unif price of olive African Government was ready oil was sharp while the product o press ahead with elections in tion of crude oil suffered from the territory without involving

tion of crude oil suffered from various technical difficulties.

Then last July, the EEC announced a reduction in the announced a reduction in the announced a reduction in the function of textiles which Tunisia war in the north of the announced a reduction in the territory. The assassination of quota of textiles which Tunisia action to the allowed to export to the conservative and pro-South Europe. This move caught the Chief Clemens Kapuun, leader of the conservative and pro-South Europe. This move caught the African Democratic Turnhalle Alliance (DTA), on Monday was presented by South African sources as reason to press ahead with a solution excluding Swapo, ber, the episode highlighted the vulnerability of industry developed in the country since 1972 on the basis of off-shore funds. The vast majority of jobs created have been in the textiles sector. have been in the textiles sector. Another major foreign income earner has also been turning in disappointing results: tourism. where receipts were down last year for the second year run-

In such circumstances, hones that the Five Year Development NATIONALIST GUERILLAS questioned by officials. "As far Plan (1977-1981) might witness loyal to Mr. Joshua Nkomo have are we can establish they were Zambia and Angola. Tunisia's economic take-off may adducted 420 black scheniprove premature. The basic children and 12 teachers and statistics of the last Plan taken them over the border min (1973-6) do not make bad read Bolswana. Some statistics of the last Plan taken them over the border min bad said that the children—both mission but the headmaster of the School where the Rev. The Bolswana Government an and 20 years—were abducted in Ndabaning. Sithole was eduitored to the border by some guerillas."

A Church officials. "As far Zambia and Angola. The Children both mission but the headmaster of bad said that the children—both mission but the headmaster of boys and girls aged between 13 the school, where the Rev. The Bolswana Government an and 20 years—were abducted in Ndabaning. Sithole was eduitored to the border by some guerillas."

A Church officials. "As far Nkomo's army being built up in Zambia and Angola.

The Chick cunfirmed that all nine white members of the school staff had been left bebind at the bad said that the children—both mission but the headmaster of the school. Where the Rev. School was eduitored to the border by some guerillas."

A Church officials. "As far Zambia and Angola.

The Church cunfirmed that all nine white members of the school staff had been left bebind at the bad said that the children—both mission but the headmaster of the school. The Botswana Government and 20 years—were abducted in Ndabaning. taken them over the border into 1973-6) do not make but reading. Gross Domestic Product increased by 6 per cent, per annum, the output of manufacturing industry by 6.5 per cent, mining and energy by 6.3 per cent, mining and energy by 6.3 per cent, mining and energy by 6.3 per cent, mining and energy by 6.4 per cent, mining and energy by 6.5 per cent, mining and en

real one is higher, especially, where some foodstuffs and accommodation are concerned Any regular visitor to Tunis will find it difficult to believe that Tunisians spend only 258 per cent, more on accommodation in

ornbiems are not of its own mak- a possible new Israeli onslaught firmed that Arab assistance is supplies to the guerillas in in industrial branches specially and price of phosphates in the sale. A communique from the still arriving via Syrian territory southern Lebanon. hard hit by the recession.

The major lines of such a critiscanomic strategy, pursued since the country of the prime Winister Wy Hedi Nouira, are not confined to Left-wing evides the guerillas to persuade the guerillas to allow the French contingent of the endorsed by one of the leading the UN Interim Force in Begin put forward Dr. Yitzhak block's two main partners in the extension of the company).

Israeli troops south of the River his nomination of an unknown origin figure as the Government's Mr. Begin apparently was bank to demand an average 9.8 per to demand in its report for 1976, published

The weakness in the direction of the flows of foreign trade is underlined by no less than the Banque Centrale in its laiest. Ranque Centrale in its latest.

Conjuncture monthly building A NEW SYRIAN Government their posts: Mr. Abdel-Halim Minister of fligher Education.

Tunisia it notes, continues to headed by Mr. Mohammed Ali Khaddam, also Minister of Another newcomer was Dr. In the deltar closed at Y222.70 ners, especially France and Italy and Halabi was formed to the 35 ministers named Shayya, Deputy Prime Minister of Transport, Mr. Safwan outgoing Premier, Major-General Yousef, Deputy Prime Minister of Transport, Mr. Safwan outgoing Premier, Major-General Yousef, Deputy Prime Minister of Transport, Mr. Safwan outgoing Premier, Major-General Yousef, Deputy Prime Minister of Culture off-for Economic Affairs; and Mr. cial, was appointed Minister of Transport of Culture off-for Economic Affairs; and Mr. cial, was appointed Minister of Transport.

tect their own domestic markets.

Tunisia to-day appears to be suffering from an overdose of economic laissez faire. Much of economic laissez faire, Much of the growth of recont years has the growth of recont years has the growth of recom years has month. Set. Bolam was piet to regional leadership of the ruling and Mr. Numan Al-Zein (Transport); heen accounted for by the viously Speaker of the People's regional leadership of the ruling and Mr. Hussem Ahmed textile industry, huilding, and Council (Parliament).

Ba'ath Party. He became Mini-Kuweider (Minister of State tourism — a fragile hasis on The three deputy premiers in ster of Education in place of Dr. at the Prime Minister's Office), which to build the country's the outgoing cabinet retained Shaker Al-Fabham, who became Reuter economic future.

The foundations for growth in the energy and hydrocarbons sector were laid in the 1960s. The phosphoric acid plant and other developments in Gahes in the south of the country instance have gone well but in the past eight years, no major the past eight years, no major industrial project, particularly FACED WITH continual slug- Economic growth would be tion. Chinese investors are particularly one which would launch a gishness in the international heavily dependent on an expanticularly wortle dthat the Government on the central Sabel coastal region local investors to invest, the inturn would depend greatly on Industrial Co-ordination Act to the control tower was damaged a strong improvement in the control their adjustion and forced to postpone industrial control to the control tower was damaged to postpone industrial control to the control tower was damaged to postpone industrial control to the control tower was damaged to postpone industrial project.

Manufacturing industry and but would still grow at a Expressing its concern over Despite vigorous efforts, the future. In the first case, must of the investment, especially that which is attracted from abroad on a tax free basis, is growth rate of 7 per cent. Last would have to rise significantly 0r. Minister and 700 Chinese businessmen, also abroad on a tax free basis, is

little to train people in skills for the future.

Tourism is another example of the short cut which does not seriously contribute to development. The growth in hotels and number of visitors was speciacular until two years ago but in 1976 and 1977 receipts from this sector were down.

land is a constant worry and so is the shortage of water. Yet In a broadcast here last night country.

Under the refurms only state more and more water now has Lieutenant General Olusegun. The Federal Government last governments and local authorisms. tinues to grow que kly. land in any one of the country's gress posed by scarce land.

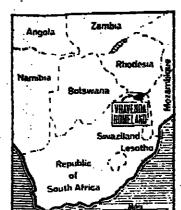
West presents its Namibia plan

AMBASSADORS OF the five the military presence of South would only be acceptable if they were stationed in the far south. Western member States of the Africa in the territory. The provenity Council to-day presence their final proposals for South African troops over a was discussed at length by the constitutional settlement in period of three months to 1500. South African cabinet on Wedner and South West Africa) to period of three months to 1500. South African cabinet on Wedner and South West Africa or of Swappa. But Mr north of the country — Grootsuch Minister. While the proposals remain confidential it is understood that they are very close to the original plan put forward by the Western of whom 1.400 would be operationally and they are the country to the forward by the Western of whom 1.400 would be operatingled "—which usually means in matter is quite ingent."

spondent writes. Chief Mphephu, tahled a

A THIRD tribal homeland in South Africa has set out on the path to independence under the country's separate development plans with the proposal by Chief Patrick Mphephu, Chief Minister of Venda, to hold talks with Mr. John Vorster, the South African Prime Minister, on the issue, our Johannesburg corre-

motion in the Venda legisla-tive assembly on Tuesday asking the South African Government to grant the homelandpopulation 450,000 and divided into three areas on the horders of South Africa, Rhodesia and



ing over the past 12 months. The South West Africa People's Swapo has said that the retention Namibia National From a guerillas, but it is audicessored trade deficit which reached Organisation (Swapo), the UN. Swapo has said that the retention Namibia National From a guerillas, but it is audicessored trade deficit which reached Organisation (Swapo), the UN. Swapo has said that the retention middle-of-the-road nationalist that the western proposals swapo has said that the retention nationalist that the western proposals swapo has said that the retention nationalist that the western proposals swapo has said that the retention nationalist that the western proposals swapo has said that the retention nationalist that the western proposals swapo has said that the retention nationalist that the western proposals swapo has said that the retention nationalist that the western proposals swapo has said that the retention nationalist that the western proposals swapo has said that the retention nationalist that the western proposals swapo has said that the retention nationalist that the western proposals swapo has said that the retention nationalist that the western proposals swapo has said that the retention nationalist that the western proposals would leave this to be settled would leave this to be settled with the south nationalist nation administrator general in Wind-hock, Judge Marthinus Steva, and the United Nations special representative envisaged by their plans. They have also left an clarified the exact relationship between the two men, who would be expected to run the territory jointly in preparation for open

The issue of Walvis Bay, the enclave which South Africa insists on retaining, and Souton wants to be handed over in any settlement deal, is also though: to have been left out of the final proposals. The western power: recognise South Africa's incidical right to the enclave, annexed by Great Britain in 1878.

Rhodesian pupils abducted

PLO fears new Israeli attack

Japanese unions begin wage offensive

pay rises which average about 12 per cent, across the board. In 1977, the weighted average of all pay rises was 9.4 per cent.

Employers seem relatively norufiled about this year's offensive since most of the unions' 1977 than they did in 1970. Nor per cent "guideline" adopted by is it easy to believe that the price while EFFORTS continued to on the River Litani, which con- He said the Syrian authorities the biggest group of quoins, of food only increased by 4.1 per day to stabilise the ceasefire in trols the approaches to the har- have provided special facilities. Sobyo. The organisation (with a special facilities) has afficiently mornings, has afficiently cent during the first 10 months southern Lebanon, the Pales bour from the north. Col Jean for supplies. He gave no further 4.7m. members) has officially of 1977 compared with the equition guerillas were reported Salvan, commander of the condetails.

valent period of 1976: a figure to 's strengthening their postinf 10 ner cent. Is certainly think in the Tyre and Nahatiyah was resorting to diplomatic Damascus has vigorously refuted per cent. In the Tyre and Nahatiyah was resorting to diplomatic Damascus has vigorously refuted per cent. In the Tyre and Nahatiyah was resorting to diplomatic Damascus has vigorously refuted per cent. In the Tyre and Nahatiyah was resorting to diplomatic leading the conditions in the Tyre and Nahatiyah was resorting to diplomatic leading the conditions that the conditions in the Tyre and Nahatiyah was resorting to diplomatic leading the conditions that the conditions in the Tyre and Nahatiyah was resorting to diplomatic leading the conditions that the conditions in the Tyre and Nahatiyah was resorting to diplomatic leading the conditions that the conditions in the Tyre and Nahatiyah was resorting to diplomatic leading the conditions that the conditions in the Tyre and Nahatiyah was resorting to diplomatic leading the conditions in the Tyre and Nahatiyah was resorting to diplomatic leading the conditions in the Tyre and Nahatiyah was resorting to diplomatic leading the conditions that the conditions in the Tyre and Nahatiyah was resorting to diplomatic leading the conditions in the Tyre and Nahatiyah was resorting to diplomatic leading the conditions in the Tyre and Nahatiyah was resorting to diplomatic leading the conditions in the Tyre and Nahatiyah was resorting to diplomatic leading the conditions in the Tyre and Nahatiyah was resorting to diplomatic leading the conditions in the Tyre and Nahatiyah was resorting to diplomatic leading the conditions in the Tyre and Nahatiyah was resorted to the conditions that the conditions is the condition that the conditions is the condition that the conditions is the conditions that the conditions is the condition that the condition that the conditions is the condition that the conditions is t searer the truth.

The first and Nanatyan was resorting to discontinuous charges that Syria was regions in anticipation of what means to achieve that objective tradi charges that Syria was was resorting to discontinuous charges that Syria was regions in anticipation of what means to achieve that objective tradi charges that Syria was was resorting to discontinuous charges that Syria was resorted as a PLO spokesman has considered the passage of military never be below to per cent.

and price of phosphates in the palestine Liberation Organisation said three years, and the slump in the sale of olive oil are continued by outside factors. Some while an Israeli destroyer was again on the more south of Tyre again on the more south fixed positions and to carry on Likud block, Mr. Menahem Begin, for the office of titular Head of from and Steel Workers Unions instead with rear-guard and hit straight of the country's instead with rear-guard and hit straight of the country's and-run operations against suffered also a heavy set-back in Jew and of Sephardic, or oriental, has set the tone for wage settlement strategy, pursued since under the authority of the under the authority of the Minister Wr Hedi Nouira.

Litani. Contacts were underway here in the next presidential ing on the fact that his devout cent, increase in wages that is nomination of the next presidential ing on the fact that his devout cent, increase in wages that is

> its record post-war low level of Y22070 on the Tokyo foreign exchange market on Thursday Dealers warned, however, that they saw the recovery as a

passing phenomenon" and they

Tokyo airport opening delay

TOKYO, March 30. State THE JAPANESE Government has decided to defer until around next Tuesday its decision on the opening of Tokyo's new inter-national airport, a Government spokesman said to-night.

The Cabinet previously was expected to set a new opening date for the airport to-morrow

On Tuesday, the Government was forced to postpone indefi-nitely the opening of the airport—which had been scheduled for

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Malaysian reluctance to invest

Few changes in new Syrian Cabinet

the central Sabel coastal region local investors to invest, the in turn, would depend greatly on industrial Co-promotion and the control their activities and force by radical protestors on Sunday, has been conceived, let alone Malaysian economy is expected a strong improvement in the country, them to take Malay partners. Retter

industrialised countries.

the urban population, but does oil are expected to be in com- because of the uncertain inter nicking up, as reflected by more paratively weak demand in the nation climate, but mainly innorts of machinery and

BY OUR OWN CORRESPONDENT

concentrated in textiles, for year and an impressive II per above the annual 10 per cent Minister and 700 Chinese busi-export. target outlined in the Third necession had cleared some of the Putting together household to-day, the Central Bank said Local investors, who are the Central Bank added that electrical goods is another sector which ensourages the growth of that the major Malaysian exports mainly Chinese, had been rethere were already some signs which ensourages the growth of rubber, tin, timber and paim fraining from investing, partly that private investments were necessary of the uncertain intersection of rubber, the contral bank added that

because of a fear of new legisla- growth in construction.

Government takes over land in Nigeria IN ORDER to combat land 19 states or at any one time.

Having considered the report Preventing people from leavispeculation in Nigeria the He said that apart from being of the panel, the Federal me to all developing countries but the absence of any agricultor of all land in the country tural policy is a serious drawing the hands of state and local back. Shortage of labour on the lands of state and local main sources of social and about fast economic and social lands. economic inequality in the transformation.

channelled to the coastal Obasanju, the Head of State, year set up a panel to study ties can now assign or lease unareas. Self-sufficiency in fond, said that no individual would be various land tenure systems in developed land. Farmers and an aim of the last Plan is far allowed to hold indefinitely more the country and find ways of rural dwellers will continue to from achieved and the goal is resortant half a hectare of our removing constraints to economic use land for agricultural, passeeding as the population considered potential building development and national proctoral and residential purposes

policy after his return

ACTIONS BY the Carter Adminis- private sector.

ACTIONS BY the Carter Administration over the last 24 hours on farm price supports, the latest round of steel price increases and the planned pay rise for federal employees illustrate the general direction the Government's anti-inflation policies are likely to take.

President Carter said at his new amountements and inflation would be made after his return from his foreign travels next week. Speaking in the carter for the carter from his foreign travels next week. Speaking in Chicago this morning Vice-President Carter state of the country for an Easter break in to build up the country for an Easter break in to build up their strength in anticipation of a rigourous campaign this strength in anticipation of a rigourous campaign of the country for an Easter break in to build up their strength in anticipation of a rigourous campaign of a rigourous campaign this spring.

Parliament is in recess and is due to resume sitting on a country for a rigourous campaign of a rigourous campaign of a rigourous campaign of a spring.

But both Mr. Bob. Bergland, have been taken over the follow-the argued that this amounted to no rigourous campaign of a rigourous campaign spring.

Bu

Chicago this morning, Vice-President Walter Mondale confirmed income plan was unveiled late the ceneral assumption that wave yesterday. This is designed to and price controls are not a live head off what are considered to option at this stage. The Administration's farm argued that this amounted to no more than fine tuning of existing practice and would not add to consumer food costs.

A factor that may change the Prime Minister's mind and make him delay calling a Spring election is the decline of the Canaparton at this stage. The Administration's farm more than fine tuning of existing practice and would not add to consumer food costs.

Mr. Bosworth's leaked memority and the prime Minister's mind and make him delay calling a Spring election is the decline of the Canaparton at this stage. The Administration's farm argued that this amounted to no more than fine tuning of existing practice and would not add to consumer food costs.

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Mr. Bosworth's leaked memority and the prime Minister's mind and make him delay calling a Spring election is the decline of the Canaparton at this stage. The Administration's farm argued that this amounted to no more than fine tuning of existing practice and would not add to consumer food costs.

Economic index unchanged

vised figures issued by the Commerce Department to-day showed that the sharp decline in Granuary, brought on by bad weather and the coal strike, was less precipitous than had been thought, with the index falling 13 per cent, as against the original estimate of 1.9 per cent.

Lust year, a similar sharp decline. Caused by climatic factors, in January had been reversed in February. Therefore, no change in the index, which points

WASHINGTON, March 30.

ing for critical support for the Panama Canal treaties, had inter-bank wholesale market on adopted an ambivalent attitude towards a key amendment to the

German, British and Japanese The Government also said that that the Peruvian authorities banks offered Peru a loan of a senior official delegation, had announced their intentions

hanks offered Peru a loan of a senior official delegation, had announced their intentions. School But the sources said that headed by the chairman of the of introducing additional to banks made such a loan conditional to an authorisation by Pedro Richter, flew to Moscow which they expect to ensure the International Monetary yesterday to negotiate with the Peruvian eliribility to draw Fund (IMF) of a stand-by loan to Soviet Union for a re-structurunder its stand-by agreement from Peru, according to the Peruvian debt to the with the IMF which was signed sources, drastic austerity Peru is facing a "very tight" sider that eligibility to be one measures, including a reduction schedule of repayments of Government expenditures, in foreign debt between row and order to grant the stand-by loan. 1980. He said that similar the national balance of payors.

Ar-DJ

Mr. Schwartz estimates that the city was receiving U.S. help, the city's fiscal year 1979 budget the six larcest New York banks deficit at \$345m. rather than the city's fiscal year 1979 budget the six larcest New York banks of the city's fiscal year 1979 budget the six larcest New York banks of the city's fiscal year 1979 budget the six larcest New York banks of the city's fiscal year 1979 budget the six larcest New York banks of the city's fiscal year 1979 budget the six larcest New York banks of the city's fiscal year 1979 budget the six larcest New York banks of the city's fiscal year 1979 budget the six larcest New York banks of the city's fiscal year 1979 budget the six larcest New York banks of the city's fiscal year 1979 budget the six larcest New York banks of the city's fiscal year 1979 budget the six larcest New York banks of the city's fiscal year 1979 budget the six larcest New York banks of the city's fiscal year 1979 budget the six larcest New York banks of the city's fiscal year 1979 budget the six larcest New York banks of the city's fiscal year 1979 budget the six larcest New York banks of the city's fiscal year 1979 budget the six larcest New Yor

Carter to outline inflation All signs point to June elections in Canada

TRUDEAU'S PROBLEMS

and price controls are not a live need on what are considered to option at this stage. The Adminis- be highly inflationary proposals tration will probably engage in a already passed by the Senate series of small actions, combined along much more expanded lines with some tougher talking to the and was accompanied by the But the Administration, bargain under heavy pressure. At the close of trading in the

Many members of parliament oversee construction of the huge pipeline consortium. It might corporations.

Many members of parliament oversee construction of the huge pipeline consortium. It might corporations.

be reluctant to make further The bill will make directors of

The Canadian Dollar | Liberal ups & downs

ALL thet signs in Canada now hoped to have it passed before solved, the bill would have to be the senate just before the recess, conference Board in Canada said point to a June general election the Easter recess. The legisla- reintroduced into the Commons the government proposals would this week that considerable imwith the dissolution of parlia- tion will also establish a single sometimes next autumn. This tighten the rules for directors provement in Canada's trade ment expected in mid-April. federal monitoring agency to would create problems for the and officers of bankrupt balance is expected this year and

Jobs & Payments

should provide the basic stimulus for the economy in 1978. Despite the weakness of the

1977 fourth quarter performance the outlook for the overall eco-nomic activity on a quarterly basis in 1978 remains as it was in December, one of moderate growth, said the Conference Board. However, the recent performance of the economy does reveal a continued reluctance or the part of Canadian busines men to spend. This is consistent both with the current stage of the business cycle and recent surveys of business intentions. Real GNP is currently forecast by the Board to increase by 4.5 per cent. in 1978 following growth at a seasonally adjusted annual rate of 3.2 per cent. in the fourth quarter of 1977.

Canada's trade balance proved significantly during the fourth quarter of last year and The Conference Board expects this sector to be an important

BY OUR OWN CORRESPONDENT WASHINGTON, March 30. THE U.S. Index of leading to future economic activity, may economic indicators was unchanged in February from the previous month. However, revised figures issued by the previous month of future by the figures issued by the figures issued by the life forecasts predict that in the shorp decline in showed that the sharp decline in Sinuary, brought on by bad was always and the coal strike, was annual rate. The passage of the legislation financial commitments until the a bankrupt corporation persons nearly a third of a cent from learly a third of a cent fr

New York finances better President goes than expected, says report

A NEW REPORT paints a some- Turning to the city's short-what brighter picture of New term cash needs, Mr. Schwartz Peru and banks discuss new loan York city's financial condition in predicts New York will need to the coming year than had previously been predicted. with city estimates of \$10m. to York city's financial condition in predicts New York will need to

The report, by the New York \$1.2bn. state Special Deputy Components of troller, Mr. Sidney Schwartz, released figures which, he said, had better changithan and heter chang THE PERUVIAN Government in the meeting were Manufac other creditor countries.

has announced that representaturers Hanover, Citibank, Wells Meanwhile, in New York tives of six foreign banks held a Fargo. Dresduer Bank Bank of Manufacturers Hanover conmecting on Monday with President Francisco Morales Ber-These belong to an international taken place on Monday in Lima.

The PERUVIAN Government in the meeting were Manufacture countries.

Meanwhile, in New York troller, Mr. Sidney Schwartz, says that the city budget is in better shape than predicted by City Hall, and it suggests the ount Francisco Morales Ber. These belong to an international taken place on Monday in Lima. City Hall, and it suggests the mudez to discuss the national co-ordinating committee of the Negotiations have been under to the city will need to do less short-term borrowing than expected. The report covers said that the City budget is in better shape than predicted by City Hall, and it suggests the city will need to do less short-term borrowing than expected. The report covers said that the City budget is in better shape than predicted by can do much more to help solve the city will need to do less short-term borrowing than expected. The report covers said that the City budget is in better shape than predicted by can do much more to help solve the city financial problems. Senator Proximire, chairman of the Senator Proximire, chairman of the Senator Proximire Covers for the City banks and the City bank

1979, starting on July 1.

to New York, says that, while Mr. Schwartz esumates that the city was receiving U.S. help,

gently on human rights in Brazil

By Diana Smith

RIO DE JANEIRO, March 30. PRESIDENT CARTER, on his ended at noon to-cay, has treated the question of human rights delicately. He has gone on a private visit to Rio de Janeiro to hear what he called "the other voice of Brazil "-before flying to Nigeria to-morrow morning.

Compared with the blunt stand he took in the early days of his Administration, inspiring Brazil to break off its military cooperation agreement with the U.S., Mr. Carter's words have fallen as baim on official

Brazilian ears. To-morrow morning, Mr. Carter will cram private talks with six church and civil leaders into less than an hour in Rio de Janeiro. There is dismay here at the brevity of the meetings which, to some observers, addear more symbolic than effective.

Quebec-Labrador iron ore strike spreads further

BY ROBERT GIBBENS

MORE THAN 10,000 members of the United Steelworkers are the British Steel Corporation and now idle in the main Canadian U.S. Steel—was halted last night iron-ore producing centre, the by the USW.

Quebec-Labrador trough, 800 This means that the estimated miles north-east of Montreal, and annual mire production capacity at the two shipping ports at Sept in the region of nearly 60m, tons lies and Port Cartier on the St. in the form of concentrates has

ron Ore Company of Canada, in the case of Iron Ore of Canada, the largest producer, have shut contracting out of maintenance mines, concentrators, pelletising tasks. Wages have not yet been plants and shipping facilities for brought up as an issue. a week, and go-slows by union tracts exciring before April 30 members have brought a suspen- are subject to an official limit

northern mines to shipping ports to start to-day, have been halted and only Wabush Mines continues ship ping pellets from its stock-pile. The peleltising plant of Sidbec-Normines—jointly owned by Sidbec. the Government-controlled Quebec steel producer,

awrence. been put out of action. The Strikes by the USW and at issues are health and safety and

sion of operations at mines, con- of a 6 per cent increase this centrators and shipping facilities year. The control is to expire of Quebec Cartier Mining Com- at the end of the year. Talks between the union, IOC and a Both iron ore railways from Government mediator were due

> U.S. COMPANY NEWS Ford underpins industry con-NBC outlook, Canadian dn Pont warning-

> > Page 32

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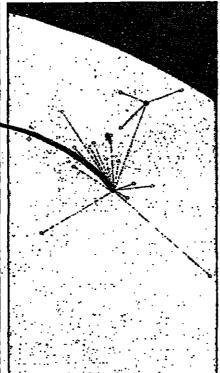
With two major factories in Southeast Asia, we reduce communications costs by linking the Penang plant with our Singapore facility. Here data is consolidated for transmission to the U.S. Accounting, payroll and inventory is handled locally by HP computers, A similar situation exists in Japan. In Australia and New Zealand, HP sales offices are equipped both for local data processing and long distance communications.



Hewlett-Packard's Distributed Systems Network All North American manufacturing

plants and sales offices have computerised communications links with HP headquarters in California. In smaller offices, they're also used for processing orders, keeping customer files, etc. The larger plants and regional offices use HP 3000 systems for local data

processing. In Brazil, our Campinas manufacturing plant is linked by computer to the main sales office in São Paulo. This in turn communicales with company headquarters. Offices in Venezuela and Mexico have computerised communications systems that handle local accounting management as well.



Most data from Europe is funnelled to the U.S. through our European headquarters in Geneva, although every sales office can com-municate directly, too. Manufacturing focilities in France. Germany and Scotland also use HP computers for accounting, order processing. management information and the like.

At Hewlett-Packard, we began distributing the computer workload around our factories in 1967. Then, in 1971, we instituted a worldwide systems network that has helped us grow to more than £750 million in shipments, with 43 per cent of our business in computational products.

Today we make 4000 different products at 40 divisions around the world and have offices in 65 countries. This rapid financial and geographical expansion in a highly technical field made the distribution of our data processing an absolute necessity.

We began with the basics.

Small systems went to work in our factories, automating various tests. The next step was linking these minicomputers with other factory systems so they could relay data and programs. Then we tied these computers together so that local management could make decisions based on accurate, up-to-the-minute data.

As we continued to grow, we connected our widespread sales offices with the factories. Today we have 130 high-speed communications systems in 94 locations, sending compressed data via satellite and phone lines. About 12 million words a day come into our company headquarters. Yet the cost is phenomenally low. For example,

we can send a ten thousand word message internationally, in one minute for 45p. On a teleprinter, it would take 16 hours and cost about £400.

We need a system that can change. So do you.

You don't have to choose between a star network, or a circle, or a string. Our way, you can have any or all of them, linked together either as a small, local system or as a worldwide network. And you can hook up an HP system for as little as £3,250. So companies of all sizes can take advantage of our flexible approach to distributed processing. You won't have to throw out your old equipment, either. We're still getting good service from some non-HP computers and peripherals. There's no reason why you shouldn't.

The keystone of our system is the HP 3000, a powerful general business system. An inexpensive software package lets it communicate with the HP 1000, a computer generally dedicated to design, test and control applications in the factory. (Both can also link directly with an IBM mainframe.)

Most long-distance communications are handled by the HP 2026, which also has plenty of power for local data processing. New HP 3000 software makes it an even more powerful management information tool. You can, for instance, sit down at your computer in Paris and use all the processing power and data base of your Milan computer -or any other HP 3000 in your network.

HEWLETT [hp] PACKARD

Winnersh, Wokingham, Berks RG11 5AR, Tel: Wokingham 784774,

Protecting the biggest investment of all.

We spent hundreds of man years developing the operating software for the HP 3000. So we know all about programming costs, and want to keep them down as much as you do. We do it by designing our new systems to use existing software. They'll run your programs faster and more efficiently. Otherwise, you'll hardly notice the difference

We also save you a lot of headaches by making our own printers, video terminals, discs and tape drives and other add-on memories, data entry devices and the like. If any part of the system does need servicing we can fix it. With so many HP offices around we can usually be at your door within hours of your call.

The moral of our story.

It's simply this. If you need to distribute your computer workload across oceans or i. your plant. you don't have to gamble. The Hewlett-Packard system has a bright future as well as an impressive past. You can find out all about it by filling in the coupon or writing to the address below.

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Name		
Position		
Company	_	
Address		

I want a sales representative to contact me.

FT27/-

U.S. business with Soviet Union shows 27% drop

trade last year had a value of exports.

THE VALUE of U.S. Soviet trade Soviet trade in 1977 was due to 1977-78, according to a U.S. dropped significantly in 1977 comslackened Soviet demand for U.S. Agriculture Department estimate. Saudi Array area with 1976, but increased struction after a good Soviet harvest. The Soviets have already ordered after a good Soviet harvest. The 12.5m. fonnes, of which 6m. The sundertak tural products is expected to declined by approximately U.S.S. U.S. non-agricultural exports.

U.S.S. 623m. in 1977 from U.S.S harvest by buying grain abrust. Past times about past times about tormed to develop the company's time from the Soviets purchased approximate to make the foundation of American committed to modernising their he expects Arab countries to economic cooperation dominating ports. In 1975 the proportional

trade last year had a value of last year had year had

per cent. to U.S.\$234m in grain in 1975-1976 and only 6m. gas and oil extraction methods, 977 from U.S.\$221m. in 1976. tonnes in 1976-77 but may which may predispose them to-Most of the decline in U.S. purchase up to 15m. tonnes in wards the U.S. market.

Carter curbs CB radio imports

little over 90 per cent. of the manufacturers competitive posi- with television reception.

American market. The International Trade Com-American market.

A Presidential order will be existing 6 per cent. tariff on cent. of the American market. as to what remedy should be imported CB radios to 31 per Official figures indicate that imported cent. After one year the import of CB radios reached a One group urged import port duty will be reduced to 18 peak of 15.3m. in 1976 which duties starting at 36 per cent. per cent. and will fall to 15 per was substantially more than the and then scaled down in subsecent. in the third year. After total number of sets sold that quent years. The other three three years the tariff will revert year. A small proportion of men rejected trade restrictions to 6 per cent.

to 6 per cent.

The new tariffs were given a the U.S. last year were of manufacturers und-mixed reception by U.S. pro-American make. Government's trade address many of whom had hoped Well over 28m. sets are assistance programme.

PRESIDENT CARTER has de- for more substantial protection thought to be in use, many in cided to increase substantially over a longer period. However, stalled in cars and trucks. The tariff protection for U.S. manuthe winte mouse apparently though the police forces to operate the view that the higher duties cult for police forces to operate their radar enseed trans and in selected, coupled with the appre- their radar speed traps and in following Japanese sales pene ciation of the yen against the dol- some parts of the country the tration which has captured a lar, would improve the U.S. radios have grossly interfered

their inflated stocks. mission found earlier this year According to trade negotiator that imports were damaging issued in the next two weeks Mr. Robert Strauss, the Japa-domestic producers, but the sixwhich will raise immediately the nese had seized about 91 per man ITC panel was evenly split

under the trains.

Romania pact close

AN AGREEMENT worth £200m. for building British BAC Oneclose to completion, according to
British Minister of State for
Industry Gerald Kaufman,
Reuter reports from Vienna. He
hoped negotiations would be completed before Romanian President Nicolae Ceausescu visite

GREECE HAD a trade deficit of from emigrants' remittances at
\$648m. in the first two months \$131m. (up 13 per cent.).

of this year, according to figures
Invisible payments in Januaryfrom the Bank of Greece. That February totalled \$159m., leavusa a 23 per cent. increase over ing a deficit on current account
of \$334m., an increase of 47 per
Imports increased by 11 ner cent. over the first two months. dent Nicolae Ceausescu visits Imports increased by 11 per cent. over the first two months Britain in June. Basic agreement cent. to \$1.072m., while exports of 1977.

Greek deficit of \$648m.

on licence-building was reached were down 3.4 per cent. at \$424m.

The trade deficit was largely The trade deficit was largely HS 748 order

Coca-Cola may build

Engines for Uganda The Uganda Government bas signed an agreement with a French bank, the Société bank, Génerale, and a French engineering company to supply six locomotives to Uganda Railways, AP-DJ reports from Nairobi. The accord is valued at \$9m. and

Korea Shipbuilding and Engi-neering. The order includes a 1,500-tonne roll press; a 1,500tonne flanging press; a 700-tonne frame bender and two 250-tonne pin-type horizontal presses.

Saudi hospital deal

Kreisky fights for eastern market

struction projects in Egypt and second important mission within red. Saudi Arabia, AP-DJ reports from two months in an attempt to give The current rounds of talks Austria had an excessively large imports from the Communist Atlanta.

Atlanta.

The current rounds of talks Austria had an excessively large imports from the Communist deficit of Sch.3.Sbn. in trade with bloc.

COCA-COLA, as part of its effort DR. BRUNO KREISKY, the estimates that if nothing Poland, Hungary, the Soviet and third nuclear power plant, to be removed from the Arab Austrian Chancellor, arrived happens, Austria's eastern trade Union and Czechoslovakia are other observers are less elated boycott list, is planning two consystematics. The about the prospect of growing posterior in the prospect of growing the p

some defined by approximately U.S. agricultural exports to mes have been shipped.

The study quoted earlier to Poland last year factories to product is expected to declined by approximately U.S. U.S. non-agricultural exports forms have been shipped.

U.S. agricultural exports to mes have been shipped.

The study quoted earlier to Poland last year depend by undertake a joint venture with: Last month the Chancellor be seen against that background.

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The study quoted earlier to Poland last year depend by undertake a joint venture with: Last month the Chancellor be seen against that background.

The study quoted earlier to Poland last year depend by undertake a joint v The soft-drink concern may trade with East Europe. and State-run companies must undertake a joint venture with; Last month the Chancellor be seen against that background. The company also plans to was primarily motivated by their feet, eastern trade, rela Mr. Rudolf Sallinger, President Austria's balance of payments,

2,527m.

U.S. exports to the Soviet make up for the 17m. tonnes equipment have reached between U.S. exports to the Soviet of the 17m. tonnes equipment have reached between U.S. exports to the Soviet of the 17m. tonnes equipment have reached between U.S. exports to the Soviet of the 17m. tonnes equipment have reached between U.S. exports to the Soviet of the 17m. tonnes equipment have reached between U.S. exports to the Soviet U.S. exports to the Code shares were 17.1 per cent, and will be involved in joint ventures far for the bulk of the outvote on Coke's bid to get off the the talks.

shares were 17.1 per cent, and will be involved in joint ventures far for the bulk of the outlist "by the end of April or the Dr. Kreisky and his ministers 10.2 per cent, respectively. If in Greece, Egypt, and Iran, standing total of net indehted-beginning of May." He said Saudi are concerned about the stagnaone adds Yugoslavia. East primarily in power station conness to Austrian banks which, Arabia and Egypt had agreed to tion in Austria's once flourishing Europe's share is just below 20 struction. Although Austroaccording to latest figures, or Prints on Pr trade with the East. Last year per cent. of the aggregate ex-Polish co-operation involves the exceeded Sch 25hn.

show. The increase, more than (about \$385m.) in 1975 to up with the credit terms offered against a background of a declining home market, with fewer houses being built.

Ing rapidly, from Sch.a.70n. becoming more difficult to keep of Trade. Dr. Josef Staribacher, term prospects because most publicly speculated that a second Comecon countries will have to last year. A study compiled by nese competitors. East European Austro-Polish power contract increase grain purchases in the houses being built.

Although the Austrian amisster pessimistic view of the Short-off trade. Dr. Josef Staribacher, term prospects because most publicly speculated that a second increase grain purchases in the increase being built.

point is, however, that last year dependence on fuel and power

the Soviet Union.

Specifically, the two countries of a special case, accounting so

woodwork exports up the British woodworking increased exports last year from £29,659,000 in 1976 to British Woodworking Federation the Comecon the motor industry. The main woodwork the motor industry the main woodwork the motor industry. The main woodwork the motor industry the main woodwork the motor industry. The main woodwork the East Last year of the Last European markets the East European markets that Austria's share of emphasis has so far been on the East European markets the East European markets the Comecon the century. The motor industry the main woodwork the motor industry the main woodwork the motor industry. The main woodwork the motor industry the main woodwork the motor industry. The motor ind

aid increase

WASHINGTON, March 30. THE WORLD BANK'S lending

create more jobs outside of and Industry said here. create more jobs outside of and many many houses are had be agriculture for their growing. Some trading houses are it said.

World Bank | Japan-E. Europe credit in doubt

The accord is valued at Sem. and the locomotives, to be delivered by next year, will be for main-line use with cargo and passenger of small-scale enterprises in delivered welping nations will be intrains.

THE WORLD BANKS lending activities to support the creation of small-scale enterprises in developing nations will be intrained.

TOKYO, March 30.

TOKYO, March 30.

TOKYO, March 30.

It is activities to support the creation of small-scale enterprises in developing nations will be intrained.

TOKYO, March 30.

Last-minute efforts to reduce the creation of small-scale enterprises in developing nations will be intrained.

In a special study, the agency whether they can agree to a pro-HUGH Smith, of Glasgow, has said this would be a six-fold in posal from four East European ward machine tools from Herbert vard machine tools from Herbert available for that purpose.

In a special study, the agency whether they can agree to a prother that the unused portions of the credit built by the Sawalha Brothers lines by stepping up business tourist hotels company, owners talks have not been very succession to the Grand Palace Hotel, for the United Sheraton Palace Hotel is being the unused portions of the credit built by the Sawalha Brothers tourist hotels company, owners talks have not been very succession to the Grand Palace Hotel, for the United Sheraton Palace Hotel is being the unused portions of the credit built by the Sawalha Brothers tourist hotels company, owners talks have not been very succession to the Grand Palace Hotel is being the unused portions of the credit built by the Sawalha Brothers tourist hotels company, owners talks have not been very succession to the Grand Palace Hotel is being the unused portions of the credit built by the Sawalha Brothers tourist hotels company, owners talks have not been very succession to the Grand Palace Hotel is being the unused portions of the unused portions of the unused portions of the credit built by the Sawalha Brothers tourist hotels company, owners talks have not been very succession to the Grand Palace Hotel is being the unused portions of the unused portions o word a film. Order for neavy ship vard machine tools from Herbert available for that purpose. If private Japanese credit lines ful, the Ministry said.

The World Bank's objective is due to expire to-morrow, the Laddition, Hungary has a create manufacturers as part of a S25m, package negotiated with a Sia. Latin America and Africa Ministry of International Trade credit line, expiring in March season rooftop swimming pool, the new hotel will be Amman's

labour forces.

In many countries, workers the credit lines totalling \$1.26bn. Japanese exports of machinery operations when the hotel is the farm to urban areas even supplied in recent years, of and equipment for some East completed in June next year though there are not enough jobs which more than half remains European projects have met and will gradually train though there are not enough jobs which more than half remains European projects have met and will gradually to for the people who are already unused because of a delay in with difficulties because of East Jordanian staff to take over there.

Last-minute efforts to reduce Sheraton Palace Hotel is being

Sheraton for Amman

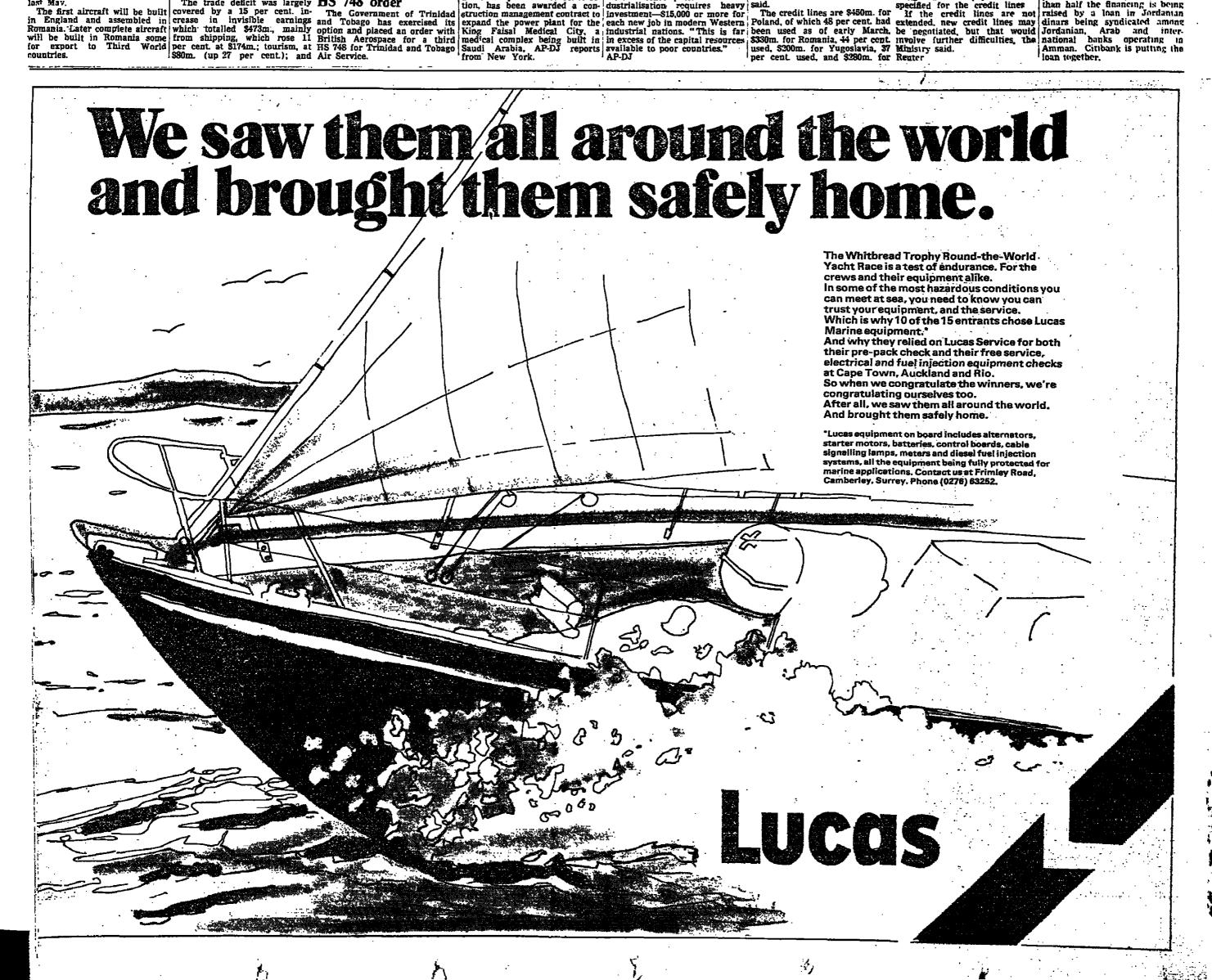
By Rami G. Khouri

SHERATON CORPORATION. the American hotel company, has signed a 25-year agreement to manage a new 300-room, five-star hotel in Amman. The new

tallest building.

Saudi hospital deal

Turner International Industries, a subsidiary of Turner Construction, has been awarded a construction management contract to extraction management contract to extract the projects of their projects of their projects. The world Bank study said the business talks for the projects of their Amman. Citibank is putting the



BP Chemicals will spend £200m. despite profit fall

BY KEVIN DONE, CHEMICALS CORRESPONDENT

PROFITABILITY

Sales value was up by 10 per cent, because of higher prices, but this failed to keep page with the movement in costs, which rose by 16 per cent.

The group's overall sales has received 150 inquiries, volume—taking in the activities "several of which are serious." of associated companies in six from potential buyers of its Park

of associated companies in six from potential buyers of its Park of other countries—was slightly up West residential block near by 2.1 per cent, to 2.6m, tonnes Marble Arch, London; says Mr. West a turnover of £661m.

John Brown, managing director. Park West, beild by Peachey on pany were hit last year by the a 120-year leasehold from the serious depression in the Euro-Church Commissioners, could pean synthetic fibres industry, earn about £2m, a year in short and aromatics production has letting income. says Allsons, and the countries of U.S. Peachey's selling against the following the minimum charge of sum based on the value of the minimum charge of charges worked be 21 per cent, on the option 520 may charge the basic option contract, and the countries of charges are charged for deals in Exchange under whose control £5,000 up to £10.000 and 1 per charges envisaged for deals in Exchange under whose control £5,000 up to £10.000 and 1 per charges in the countries of the Stock per cent, on the countries of the stock per cent on th

of British However, capital expenditure-

for sale

PEACHEY Property Corporation

exports based on low cost block is likely to sell for between

Profit safeguards

BY ELINOR GOODMAN, CONSUMER AFFAIRS CORRESPONDENT

THE GOVERNMENT has been Pressure has been building up Hattersley will try to get the urged to resist pressure from in recent months among some changes through the Commons MPs to abolish the profit safe. MPs for tightening up of the this summer when he lays the

PROFITABILITY of British Petroleum's chemicals operations fell last year, but the group is pressing ahead with a rapidly growing capital expenditure will be turn programme this year.

Pre-tax profits from its worldwide chemicals operations operations of the fill of the group is pressing ahead with a year to about f300m. The confederation of British Industry said that the safeguards controls.

The Confederation of British Industry said that the safeguards controls.

The confederation of British Industry said that the safeguards controls.

The confederation of British Industry said that the safeguards controls which will be controlled to industry and could not be said to have inhibited the Price Commission's powers to recommend a freeze in prices if doing so would reduce a company's could not be said to have inhibited the Price Commission's powers to recommend a freeze in prices if doing so would reduce a company's could not be said to have inhibited the Price Commission's powers to recommend a freeze in prices if doing so would reduce a company's could not be said to have inhibited the Price Commission's powers to recommend a freeze in prices if doing so would reduce a company's could not be said to have inhibited the Price Commission's powers to recommend a freeze in prices if doing so would reduce a company's could not be said to have inhibited the Price Commission's powers to recommend a freeze in prices if doing so would reduce a company's could not be said to have inhibited the Price Commission's powers to recommend a freeze in prices if doing so would reduce a company's could not be said to have inhibited the Price Commission's powers to recommend a freeze in prices if doing so would reduce a company's could not be said to have inhibited the Price Commission's powers to recommend a freeze in prices if doing so would reduce a company's could not be said to have inhibited the Price Commission's powers to recommend a freeze in prices if year could not be said to have inhibited the Price Commission's powers to

powers and it was essential that industry should be given guaranteed protection against abuse of these powers.

afeguards.

orders which will be needed

The safeguards restrict the when profit margin controls

Mr. Utiger said yesterday that he was "alarmed" by the When Allied Breweries was dation that the Ever Ready bat-

to f18.9m. last year, but the fail at enhancing existing areas of BP in U.K. were down from £36m. in 1976 to £11.3m. at Wilton on Teesside, which is last year, and the volume of home and export sales fell by 3 per cent.

Faced with strong competition and only alow growth in the U.K. the group put more emphasis on and only alow growth in the U.K. the group put more emphasis on export sales and pushed up the volume by 4 per cent. over the volume by 4 per cent. Ov against safeguards. allowed to The CBI is worried that Mr. per cent. allowed to earn more than 101

Traded option could cost £15

BY MARGARET REID

action is less than £20.

The additional amount is to total consideration is less than The scale of charges worked be 2½ per cent. on the option £20 may charge the hasic option out, subject to final approval by money involved up to £5,000, 1½ contract fee of £2.75 only.

Boost tree planting, report urges

FURTHER EFFORTS to in-wants timber and waste paper for planting. timber and waste paper for planting.

tary groups, merchants and local report, and the industry should be recycling are proposed in a lt says the aim should be the authorities."

The increase in import penerous excess stock scheme to even out tration, has, however, been dominated by the reduction of the reducti

The working party wants achieved.
oser co-operation between "Since

Council Sector Working Party on by the year 2000. between the first half of 1970 In a general review of the Paper and Board. Efforts should also be made to and the second half of 1976. industry, the working party says The report says that 15 per improve the collection of waste "The reasons for this decline that U.K. consumption of paper The report says that is per improve the concentral of the industry's wood pulp paper, mainly from households, include the cyclical nature of and board rose at an annual dinavia and Canada. requirements are home grown, to match the expected 500,000 demand, the absence of any rate of 2.7 per cent, between 1963 tonnes increase of consumption stabilising influence other than and 1974 from 5.6m, tonnes to tonnes increased by 27 per cent, in the However, the present rate of the early 1980s.

Stocks, restructuring of English tonnes in 1975, rising again to the continuence of the carry of the continuence of consumption of paper large integrated mills in Scandinavia and Canada.

Production of tissues has integrated mills in Scandinavia and Canada.

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Production of tissues has integrated mills in Scandinavia and Canada.

sufficient to attain the target assuming the continuance of current financial constraints on before the year 2000. The work- present trends there could be a local authorities."

In the decade up to 1974, U.K. mated-to have over 90 per cent. production rose by 0.6 per cent. of the home market.

In the decade up to 1974, U.K. mated-to have over 90 per cent. of the home market.

In the decade up to 1974, U.K. mated-to have over 90 per cent. of the home market.

In the decade up to 1974, U.K. mated-to have over 90 per cent. of the home market. cffects of fiscal legislation which ticularly of mixed wastes unless local authorities as an important rate of increase in consumption, the industry has shown a de-has led to a drop in the planting increases in recovery rates source of mixed waste and would By 1974 output was 4.6m, tonnes, cline since 1970 ranging from rate in the private sector. currently being planned are like to see more joint schemes which dropped to 3.6m, tonnes in 16 per cent, in printings and

timber growers and users and it waste is already collected, this Schemes for improving waste. The proportion of U.K. con-case materials.

Government policies means increasing the collection paper collection should qualify sumption which was imported crease the supply of home-grown aimed to encourage private of post-consumer waste by volun- for Government aid, says the rose from 29 per cent, in 1963 to tary groups, merchants and local report, and the industry should 44 per cent, in 1975.

> U.K. capacity in newsprint in the face of competition from large integrated mills in Scan-

between authorities and private 1975 and rose again to 4.1m. writings, 17.5 per cent. in board pre-consumer merchants, including mills. tonnes last year. to 0.4 per cent. in corrugated

BOND DRAWING

CITY OF TURIN U.S.\$ 9% Bonds 1991

S. G. WARBURG & CO. LTD., announce that Bonds for the nominal amount of U.S.\$500,000 been drawn in the presence of a Notary Public, for the redemption instalment due 1st May, 1978.

2871 8080 11706 11706 11708 11 362 5470 9433 11576 115773 224340 23069 24640 23069 24640 26640 26 6085 6353 6580 6912 7159 7323 7487 7652

On 1st May, 1978, there will become due and payable upon each Bond drawn for red

S. G. WARBURG & CO. LTD. 30, Gresham Street, London, EC2P 2EB.,

or with one of the other paying agents named on the Bonds

Interest will cause to accrue on the Bonds called for redemption on and after 1st May, 1978 and Bonds so presented for payment must have attached all coupons maturing after that date.

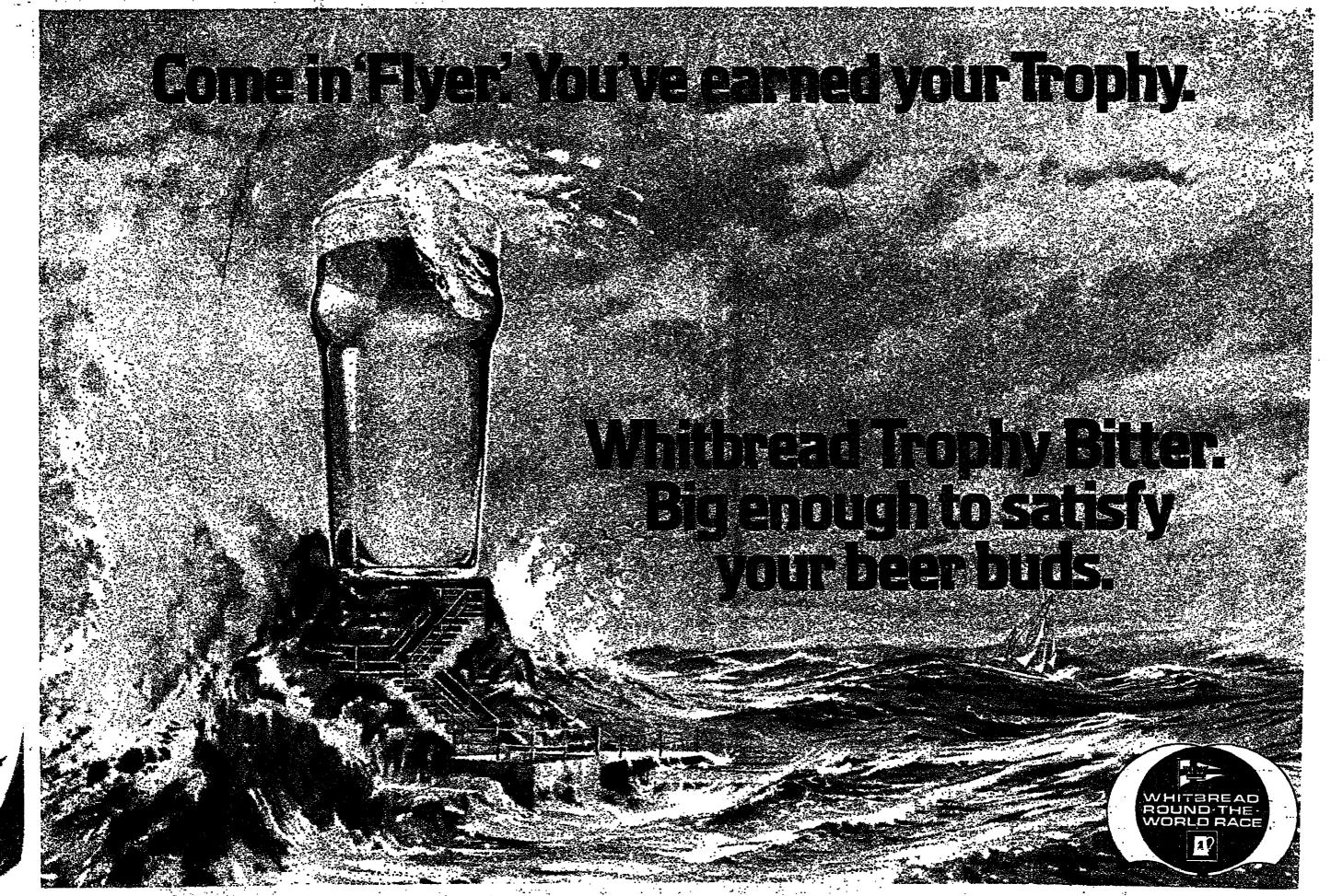
U.S.\$6,500,000 nominal Bonds will remain outstanding after 1st May, 1978.

The following Bonds drawn for redemption on dates stated below have not yet been presented

1st May, 1972 Nos: 2768 : 6968 1st May, 1973 317 : 2777 : 3717 : 4197 : 8837 1st May, 1974 Nos: 318 : 2778 1st May, 1977 Nos: 316 : 346 : 1902 : 2619 : 4236

30 Gresham Street, London, EC2P 2EB.

31st March, 1978



Roadline makes £2m. turn-round to show profit

ROADLINE U.K., the National £300,000; redundancy costs; and Freight Corporation's parcel £300.000 of interest charges.
delivery arm, made a £2m, re Sales at Roadline, formerly
covery into profit last year. Mr British Road Services Parcels

Selective retirement backed

THE DEPARTMENT of Employment favours selective early cost-effective relative to selective
ment favours selective early cost-effective relative to selective
poblic release schemes as a better
method of reducing unemployment rather than a general
switch to 60 as the retiring age
for men. The latest Department
of Employment Gazette, says that
for men. The latest Department
of Employment Gazette, says that
aged would have the greatest impact on unemployment over the

The Department forecasts that
there could be an immediate reduction of 200,000 in the number
of the Opposition, in an address
of the Opposition and hum

Amic's 1977 earnings were affected by the continuing decline in the performance of the South African economy. However,

in view of the excellent results from the

group's major subsidiaries. Boart Inter-national Limited (Boart) and Scaw Metals Limited (Scaw) and the-improved income

from the corporation's portfolio of-investments, the final dividend was

increased although the group's net equity

earnings decreased for the first time in seven years. This decrease was attribut-

able to the sharp decline which took place

in the markets for timber and related

have taken place which should result in

an improvement in the fortunes of these industries and I will elaborate on this

The group's net equity earnings fell by 5.5 per cent to R40.59 million, compared

with earnings of R42.95 million in the previous year. Earnings per share decreased by 5.5 per cent from 160 cents

in 1976 to 151.1 cents. The number of

shares in issue increased marginally following the issue of 16 500 shares in

Amic paid an unchanged interim divi-

dend of 22 cents per share. The final dividend was increased by 5 cents to 48 cents, resulting in a total dividend for

the year of 70 cents per share covered 2.2 times, compared with the 1976 dividend of 65 cents, which was covered

The market value of the group's listed

Investments rose by R9.07 million at December 31 1977 to R65.15 million

at R53.31 million at December 31 1977 compared with last year's figure of R53.58

aspect later in my review.

Industrial Corporation Limited

Extracts from the review by the Chairman Mr. G. W. H. Relly

are being extended to cover more sophisticated drilling techniques, both on

surface and underground, as well as

supervisory skills. In line with the resultant improvements in productivity, the earnings of black drillers have tripled-since 1974. At Highveld Steel consider-

able improvements in productivity have been achieved. Output measured in tons

of steel per man year has increased

by some 155 per cent from 54.1 in 1959 to 137.7 in 1977 and gross sales have

increased six times from R5 000 ner man

year in 1959 to R30-900 in 1977. The

1977, is staffed mainly by black operators

who received intensive training and who

who received intensive training and who have produced excellent results. Technical training of white, coloured and black workers is well advanced at Sigma, particularly in the fields of motor assembly, quality control and maintenance of vehicles, and in some areas, as a result of selected training

programmes, productivity has improved

by 68 per cent in the past year. In the timber sector, the San group has estab-

lished a manpower services technical training school in the Eastern Transvaal

and an approved in-company training

scheme has been operating since 1975.

Capital and reserves

Equity earnings*

per share*

Listed investments

Unlisted investments.

Dividends

Other assets, net

FEATURES OF THE CONSOLIDATED FINANCIAL STATEMENTS

214 225

70 cents

26 861 947

151.1 cents

Anglo American

Sea gas may provide offshore electricity

BY RAY DAFTER, ENERGY CORRESPONDENT

at State control

BY JOHN HUNT, PARLIAMENTARY CORRESPONDENT

Energy Department officials.

It is also possible that some of the gas will be converted offshore company has accepted the need to be submitted (1970=100), compared with 103.6 within the next day or two. for 1976.

For 1977 as a whole output of

tax cuts

and condemns "the costly PRODUCTION has started of ling. With aerial refuelling, its burden of legislation and the first of the air defence patrol time will be greatly inbureaucratic delay" that is Variant of the Tornado multi-creased, adding to its problems. The combat aircraft for the RAF. The variants new air interpolation of the points are supported to the combat aircraft for the RAF.

Tornado variant in production

BY MICHAEL DONNE, AEROSPACE CORRESPONDENT

Engineering shows

OUTPUT by the engineering according to figures by the industry in 1977 was only Department of Industry in its marginally higher than in 1976, journal Trade and Industry. The

with a slight decrease in produc- growth of 3 per cent. over 1976

in output, of 11, 15 and 10 per cent; respectively. The precise

marginal growth

BY JAMES McDONALD

of the S09 aircraft in the total programme, 385 will be for the first Tornado of the Britain.

G. W. H. Relly

In assessing economic prospects for the year ahead, one must acknowledge that the primary sectors are not likely to provide the same impetus as they did last year. Hopes for a continued increase in export earnings are diminishing along with general expectations that economic growth in the major industrial nations will be disappointing. However, the rate of decline in manufacturing output in South Africa showed signs of levelling of towards the end of 1977, and there seems to be some consensus that the recession may at last have bottomed out.

It is likely that there will be a small late.

Zaire living

THE MOST expensive country in rates of growth ade difficult to the world for a British expairiate measure accurately in constants is Zaire, it was claimed yesterday, price terms because of continus | Familiarant | Candillana Employment

price terms because of continuously developing technology.

Electrical machinery, the wires
and cables industry, and electric
parts for vehicles showed similar
smaller increases. Output of the
telecommunications equipment
industry declined appreciably, by

12 year conf.

Employment
Conditions
Observed
The conditions
T

parks plan is attacked

PLANS FOR U.K. skateboard manufacturers to help to finance the construction of safety parks were attacked by the industry

Manufacturers also criticised moves to ban all skatchoarding in public as unrealistic.

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GEORGE A. WORTHINGTON. VICE PRESIDENT

21 MINGING LANE LONDON EC SR 7DN, ENGLAND TELEPHONE: 623-3131 HURLEY M. ZOOK

NORTH-SEA natural gas may be pany set up by the Government Energy Department's offshore collected in the future through with private and State-owned supplies office to study the possinew pipelines and floating interests, is due to submit its bility of using floating liquefacting plants according to final report next week to Mr. tion plants.

This report is to be submitted Energy Department officials.

Energy Department officials.

Energy Department's offshore tion by each of the three main was entirely in the high-technility of using floating liquefaction plants.

This report is to be submitted (1970=100), compared with 103.6 goods showed marked increases in production within a single decrease the production was entirely in the high-technic makes the production of the high-technic components, compliants.

The index for all engineering puters and electronic capital (1970=100), compared with 103.6 goods showed marked increases in production was entirely in the high-technic components.

said-in London yesterday.

Trading profits this year The company should make should expand by nearly 80 per cent, he forecast, after detailing forecast for this year, as Road-investment—plans worth over line expanded its High Street film. for the next two years, delivery business to heigh completed and it is likely and of the money will be greated from the converted offshore company has accepted the need into methanol—a basic petrofor the construction of comparatively short sections of pipelines, these offshore plants would be districted to shore by undersea that a big new gas gathering sector, however, it appears that the use of the mechanical engineering inchemical—or used to generate tively short sections of pipelines, these offshore plants would be districted to shore by undersea that a big new gas gathering sector, however, out that is likely to be put to put rose by 2.5 per cent, and in the previous plants which could be transmitted to shore by undersea that a big new gas gathering sector, however, out the mechanical engineering in the construction of comparatively short sections of pipelines, these offshore plants would be districted to shore by undersea that a big new gas gathering sector, however, it appears that the use of the mechanical engineering in the construction of comparatively short sections of pipelines, these offshore plants would be districted to shore by undersea that a big new gas gathering of process that the use of the mechanical engineering in the construction of comparatively short sections of pipelines, these offshore plants would be districted to shore by undersea that a big new gas gathering of process that a big new gas gathering of process that the use of the mechanical engineering in the construction of comparatively short sections of pipelines, these offshore plants would be districted to shore by undersea that a big new gas gathering of process that the use of the mechanical engineering in the construction of comparatively short sections of pipelines, these offshore industry

cent, he forecast after detailing forecast for tints year, as Road-investment-plans worth over line expanded its High Street. The money will be spent such as Stritus Home Stores. The money will be spent such as Stritus Home Stores. The mall-order elivery side should not be considered and the strip of the construction of a string Home strip of the construction of t

bureaucratic delay" that is variant of the Tornado multimadding to its problems.

The points emerge from a report by the Joint Economic Advisory Panel of the building industry, which represents the main construction organisations in the professional, building and contracting and materials supply industries.

The consultative committee ralls for encouragement of industrial huilding, by tax concessions, as a key priority since, it says, recent surveys show that industrialists are ignorant of the soft and the programme, and eventually the programme, and eventually make to industrial production of the S09 aircraft in the total programme, 385 will be for the soft industries.

The variants new air intermediation rate variants new air intermediation of Accidents called on the British Acrospace air at distances of up to 100 nautical mention of 20,000 will be able to engage targets at distances of up to 25 miles at distances

Interox forms company to enter U.S. market

BY OUR CHEMICALS CORRESPONDENT

broadly-based growth in manufacturing INTEROX, the peroxygen chemi- Hydrogen peroxide is used as output. Capacity utilisation is generally cal company jointly owned by a bleach in the paper and textile low, and, if output is expanded, this will Laporte and Solvay of Belgium, industries, and sodium perprovide scope for a reduction in unit is to make its first entry into the callionate is used in detergent

moderate advance in economic activity as a first step is to invest several lack of a presence in the U.S. million dollars in constructing the plants will adjoin the committee of two plants at Deer Park, plex of Soltex Polymer Corporation, Texas. The investment tion, the Solvay U.S. subsidiary. Is thought to be in the region of Anart from its 50 per cent. share in Interest. Solvay also has a tion of Interox America, which a major weakness has been its

530m. to \$40m. in Interox. Solvay also has a One plant will be for the pro- 24.9 per cent. direct stake in duction of hydrogen peroxide, Lanorte. of sodium percarbonate.

costs, although it also means that fixed lucrative U.S. market.

powders. The turnover of Interox investment spending is likely to remain

The parent companies in 1976 was £100m. The company weak.

announced yesterday the forma- has plants in five continents, but

with a capacity of some 40,000. The two companies formed tonnes a year, and a second plant. Interox in 1970 to establish a will produce substantial tonnages major presence in the world league of peroxygen companies

Commercial property is making recovery

Commercial property invest- a report by Save, the conserva-ment was outperformed by both tion group. equities and gilts between March Less kids' stuff

Hatton facelift

Hatton Garden, centre of the jewellery trade in London, is to be given a facelift—including a

Shops affront

ised for their poor design in the unemployed.

1974 and the end of tast year.
But the after-effects of the property crash have now worn off.

LESS KIUS SELLE

British women spent more on their own clothes in January and less on clothes for children than

Commercial property has again they did a year ago, the Textile become a prime investment Distributors Association said.

Valuers' chairman

Mr. Clifford Tippett, chairman of Abbeyview Property Company, was appointed chairman of the partial ban on traffic—under was appointed chairman of the plans being considered by Incorporated Society of Valuers Camden Council.

Strident scheme

The National Union The shop fronts of many leadStudents wants courses for 16
ing British chain stores, to 19-year-olds introduced as part
including Boots, British Home of a plan to extend university
Stores and the Co-op, ar ecriticeducation to young workers and

with Rolls-Royces, a fire engine

Aston racer in auction

THE LAST factory-built Aston Poet Laureate, Alfred Austin. Martin team racing car is for The Project DP 215 was the sale. The Project DP 215 will Phil Lucien Blanchi car in come under the hammer at a reported to be the first car to softbeby's auction of veteran, exceed 300 kph on the Mulsanne vintage and special interest cars straight. Other racing cars are next month and is expected to included in the auction along fetch about £20,000.

with Rolls-Royces, a fire engine

With Kouls-Royces, a are engine

Also for sale is a 1927 Austin and a London taxi.

Windsor which has had just one Among the Rolls-Royces is a woman owner since 1928. She 1915 Silver Ghost Cabriolet de was given it as a birthday present Ville, which was once owned by and called it Alfred after the the Maharaja of Kalsia.

terms of the corporation's share incentive Amic's own income from its investment portfollo increased by R1.36 million, or 16 per cent over the previous year, to R9.82 million.

reflecting a 29 per cent appreciation over book value of R50.32 million. Since the vear end, however, market values have leclined, and at March 15 1978, they stond at R62.90 million. Unlisted invest-ments have been valued by the directors

2.5 times.

In my 1974 review I commented on he enduring need to improve labour roductivity in view of the escalating ost pressures evident in secondary ndustry and also on the need to improve the utilisation of our mannower resources

Labour

prough the establishment of training entres, and to develop motivation, skill nd ability through the delegation of acreasing responsibilities. Although there still much to be achieved. I am pleased report that considerable progress is parent. This is evident not only within te Anglo American Corporation Group it also in many major companies in the dustrial sector and in the attitude of the government itself. The appointment the government of the Wiehahn mmission of Inquiry into labour legistion is to be welcomed and it is to be sped that its findings will reveal the

ped for an intensification of current ogrammes. There has been considerable progress thin the Amic group. A number of mpanies have adopted the Paterson job ading plan with the ultimate aim of hieving a unified wage structure. At aw Metals the black training proamme has been extended and developed meet all the requirements of an inmpany training centre as laid down by Department of Education and Train-Linstruction is given by fulltime ining instructors in 20 different beesses and about 3 000 black polyees received instruction in 1977. Boart group also operates two fullys trained over 100 blacks in the operan of surface drilling ries. This has sved very successful and these courses

The scheme not only provides training in various technical fields, but also covers psychological and job aptitude testing. In addition, a two-and-a-half year forestry training course has been introduced to man while other employees are being specifically trained in the use of industrial Future outlook

Although the penetration of upper levels of job categories by black employees becomes difficult in recessionary times, it is encouraging to note the advances that have been made; at the same time the present over-supply of labour enables employers to obtain and to select carefully the calibre of employee required. The establishment of training centres and the changing attitude of government towards the progress of blacks in industry is gradually leading to far-reaching changes in the structure of labour in South Africa. It is essential that this process should continue, despite the difficulties of the recession, and that it should result in a steadily improving use of labour resources and skills. Throughout this period the co-operation and help of the white trade unions will become increasingly important. It is pleasing to note that in many areas former hard-line attitudes have eased considerably and have been replaced by an awareness of the need to recognise that the fullest use of black labour could result in rising living standards for all sectors of the population.

can be expected. Inadequate demand will remain the inhibiting factor. Under such conditions maximum advantage must be taken of export outlets and of import taken of export outlets and of import replacement opportunities, which are being broadened with the emphasis given to the Buy-South African campaign. The optimum use of labour will also remain a crucial area with considerable implications for the development of the home mission from estate agents, is to become the site of a maritime museum in June, when four historic ships will join ten Thames barges already moored there. tions for the development of the home market. In this respect, it is important that the findings of the government's recently appointed commissions of inquiry into labour matters should lead to the speedy implementation of positive

poturn in consumer spending in 1978.

based partly on an increased use of

credit stemming from improved con-

sumer confidence and partly on the need to replace durable and semi-durable items

after a long postponement of such purchases. This should result in a more

However, it would seem that only a

50 719

53 578

192 284 42 949

65 cents

26 845 447

160.0 cents

191 881 40 918

. 16 672

63 cents

26 460 639

154.6 cents

The scale of economic growth envisaged for 1978 is clearly not going to alleviate significantly the country's most urgent problem—namely, the large pool of unemployed blacks which is steadily increasing as new work-seekers enter the market. A further easing of restrictive measures would, of course, he of assistance, but such moves will continue to be constrained largely by the balance of payments situation. Even though the outlook for gold is favourable, a resumed net inflow of foreign capital is critical to our economic prospects, and the un-certainties underlying this consideration need no further emphasis. It is to be hoped, however, that maximum use will be made of any respite we may receive from such quarters to redress the fundamental problems facing the nation, and to provide an environment in which growth prospects can reflect once again enormous natural advantages of

The 14th annual general meeting of Anglo American Industrial Corporation Limited will be held in Johannesburg on Wednesday May 17th, 1978.

Copies of this review with the annual report are obtainable from the London office of the Company at 40 Holborn Viaduct, ECIP 1AJ, or from the transfer secretaries, Charter Consolidated Limited, P.O. Box 102, Charter House, Park Street, Ashford, Kent TN24 SEQ.

British Airways to use Gatwick for Zurich run

BY MICHAEL DONNE, AEROSPACE CORRESPONDENT

BRITISH AIRWAYS plans next Monday to start its first international scheduled services from Gatwick Airport with flights to Zurich using One-Eleven jets.

While the airline has operated for many years with its British Airtours holiday charter subsidiary from Gatwick, it has hitherto resisted a move to that airport with scheduled international services, preferring to concentrate on Heathrow.

Operations as passenger demand builds up.

With a £100m. modernisation scheme, now completed at Gatwick, designed to boost the airport's capacity from the present of its is comparatively uncongested and is regarded by many travellers as a more pleasant place at which to begin and end a journey.

The Department of Trade is

Heathrow and growing competition from other airlines using age more foreign airlines to use Gatwick, has obliged it to make Gatwick, and both the new serthe move. British Airways vices to the U.S. by Braniff Interintends to keep the bulk of its national and Delta Air Lines, are operations at Heathrow, but will being based on Gatwick instead probably increase its Gatwick of Heathrow.

concentrate on Heathrow.

But increasing congestion at The Department of Trade is Heathrow and growing competi- actively campaigning to encour

Climax in landing

rival systems over a period of ence Scanning Beam (TRSB) more than two weeks, until MLS. April 21. and by that time is ex-pected to decide between them. more than £1bn. world-wide enough data has been produced over the next ten to 20 years for on their respective merits to the winning system. Under the enable the organisation to go Organisation's rules no single ahead with its meeting. manufacturer will have a monopoly of the winning system, either U.K. or U.S., and all the manufacturers involved will have the right to make and sell whichever system is chosen.

The overall requirement is for ments and Hazeltine Corpor what is called a Microwave ation.

The rival systems have been and still are being tested at At stake will be orders worth various major airports, but The U.K. system is developed

by Plessey, with the aid of the Civil Aviation Authority, and it has been given the full support of the Government. The U.K. believes that Doppler is the Nonetheless, the makers of safest of the two systems.

The U.S. system is developed head-start over their rivals in world markets.

Ocheves that Dopple, is the safest of the two systems.

The U.S. system is developed by a number of companies, including Bendix, Texas Instru-

Lorry drivers' hours White Paper soon

the Transport Department. summer recess when union and partially in force and as envis-transport industry comments aged for 1981, do override the on a consultative document domestic code on driving time.

The move follows the introduction to Britain on January provisions
26 of EEC rules on drivers' Government hopes its proposals hours and records. The rules will enable drivers to make use of the greater flexibility of the tion 543/69 which applied to EEC rules compared with the U.K. drivers on international 1968 Act.

One of the main changes proposals of the greater flexibility of the main changes proposals of the greater flexibility of the control of the main changes proposals of the greater flexibility of the great

MOVES TO harmonise British will apply in full on all journeys

were announced yesterday by all the provisions of the Transport Act 1968 which also govern A White Paper will be laid commercial drivers in Britain, before Parliament before the But the EEC rules as now

The 19-page consultative docu-The move follows the introment sets out which of the 1968 duction to Britain on January provisions still apply. The 26 of EEC rules on drivers' Government hopes its proposals

one of the main changes proposed concerns the maximum posed concerns the ma period.

At the end of the period, on instead, at more frequent January I. 1981, the EEC rules intervals.

Electricity demand less than expected

BY ROY HODSON

GROWTH in electricity demand is failing short of targets because of sluggish industrial production and almost static domestic demand. The Central Electricity Generating Board for England and Wales expects only a 2 per cent. increase in electricity usage during the financial year 1977-78. A rise of at least 3 per cent. had been predicted.

But the Board hopes to break even in spite of the lower sales.

Last year it made a profit of

Last year it made a profit of £129.8m. after paying interest charges—an increase of £71m, on the previous year. If demand fails to improve, the Board may have to seek

higher wholesale prices from

area boards to avoid running into deficit. It cannot give any hope in the short term of containing electricity prices by more efficlent production.

The next major power station to come into production—the 3,300 MW Isle of Grain station -ls oil fired.

At present, oil for power stations is 10 per cent, dearer than equivalent coal supplies. The next cost breakthrough for electricity generation will be in the early 1980s when advanced gas-cooled reactors are brought into production. The South of Scotland Elec-tricity Board yesterday announced price increases of 10 per cent. on domestic bills and 9.4 per cent. for industrial supplies. The Board will boost revenue by £28m, and expects to break even during 1978-79. The Prices Commission is still investigating the increased charges and will report on June 12.

Repairs to the Hunterston

B nuclear power station, where a sea-water leakage put one of the two generators out of action, have cost the SSEB £5m., the chairman, Mr. Roy Berridge, said yesterday. Dearer fossil fuels to maintain output while repairs are carried out will cost up to £10m. in the coming year.

Mild weather cuts fuel use

Systems battle

Society's loss may exceed £600,000

LOSSES incurred by the Grays Building Society could be greater than those uncovered in

Building Society could be greater than those uncovered in the last building society crisis two years ago.

The exact extent of the financial irregularities uncovered in Grays' accounts after the death of Mr. Harold Hazgard, the society's chairman, are due to be disclosed to-day by the Building Societies Association.

The irregularities could be greater than the £600,000 discovered by the Wakefie'd Building Society in 1976. Grays' assets of £11m. are under half those that were held by the Wakefield at the time its losses were uncovered.

Details of the Grays' losses have been passed to the Building that the conversions would be greater than the £600,000 discovered by the Wakefield at the time its losses were uncovered.

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Details of the Grays' losses have been passed to the Building that the conversions would be greater than the conversions all in the South of cut-price Price route to he conversions from the soute price Price route the conversions from the conversions which International to be count trading is tess developed. In all, 50 new Pricerites are to the new kind of cut-price Price route the conversions of its smaller stores in the North for the sample of its smaller stores in the North for the subject of the new kind of cut-price Price route the conversions of its smaller sto

International drops stamps in 40 stores

BY OUR CONSUMER AFFAIRS CORRESPONDENT

GREEN SHIELD trading stamps 40 of these Pricerite stores trad-are to be dropped by Intering in the North of England, national Stores, the BAT Indus-none of them giving trading trics supermarket chain, in stamps. It has now decided to another 40 of its 720 stores. expand the operation into the another 40 of its 720 stores. expand the operation into the The shops, all in the South of England, where dis-

Thanks to your get up and go, we offer more places in Europe to get up and go to.

tions in Europe from our home base than any other European airline flies from theirs.

And with good reason. Over the years, the initiative of the

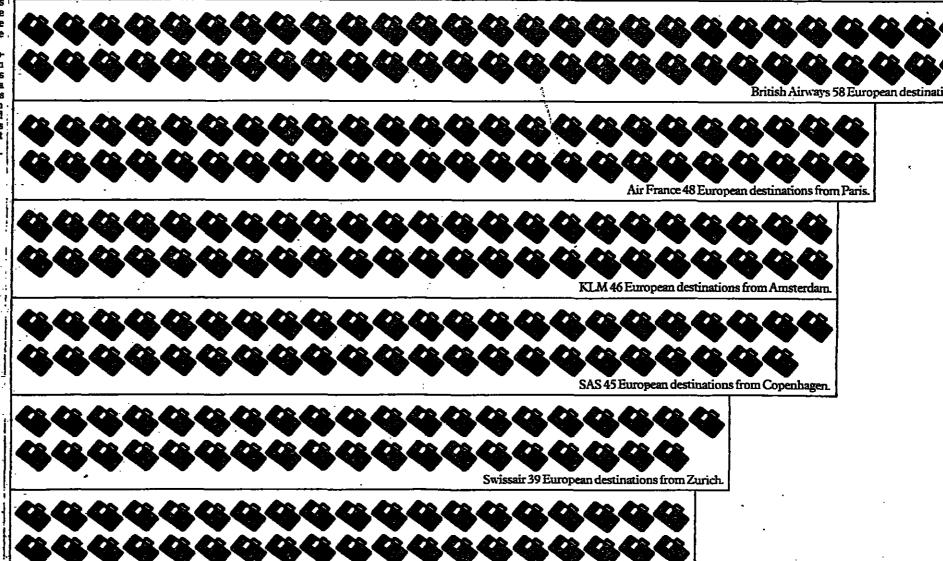
We fly to more international destinathat many of his European competitors have been slow to exploit.

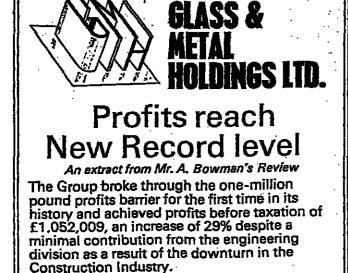
So as British trade has grown so has

Today, flying to more than just the British businessman has taken him to markets obvious places gives you a distinct edge.

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When you travel to Europe, fly the flag and feel at home.





Financial Results Year to 31st October 1977 £5,930,107 Turnover

£5,137,417 £814,205 £1,052,009 Profit before Tax 27.50% 30.25% Dividend Earnings per Share 13.2p 14.2p **Balance Sheet Value** 79p 100p per Share

COMPANY ANNOUNCEMENT

ANGLO AMERICAN CORPORATION OF SOUTH AFRICA LIMITED

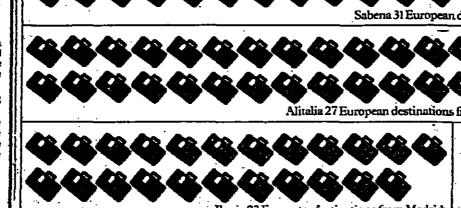
1976

(Incorporated in the Republic of South Africa) PRIVATE PLACING OF PREFERENCE SHARES Agreement has been reached for the Corporation to make a private placing on or about the 1st July 1978 with certain local institutions of R40 million 101 per cent redeemable cumulative preference shares, which will carry no conversion rights. The issue will have an average life of approximately eight years.

The proceeds of the issue will be used to finance ongoing commitments of the Corporation. A general meeting of members of the Corporation will be called to consider the necessary resolutions for the issue of the preference shares by the directors and a circular giving the notice of the meeting and full details will be sent to members in due

> London Office: 40 Holborn Vizduct ECIP IAJ

March 31st. 1978





ASLEF told to seek internal settlement

day strikes in a pay dispute, has suggests, long before discussions council meeting.

The 20,000 workers, the largest men's-type forward commitment been told by an independent in broke down and the strikes were quiry panel to sort out its threatened at the end of Febru- Association (TSSA) which well-workforce, voted 2—1 by postal improve existing bonus pay-

Basnett urges TUC

link to aid jobless

2-1 for 10% rise

MEMBERS of the General and Shift allowances and sick pay Municipal Workers Union in the have also been improved, and water industry have accepted a the wage structure will now be ASLEF, the train drivers' union, through the industry's negotiat- be prepared to give its decision; pay offer within Government reviewed. The three unions, which threatened a series of one- ing structure, as the panel now on the claim at the initial joint guidelines. The 20,000 workers, the largest men's-type forward commument,

an independent advisor, said ASLEF's grievances should be given priority. It also provided ASLEF with an extra bargaining ever in this year's pay and productivity talks, which involve staff shedding there negotiating tiers for major issues; it should be handled by the Railway Staff National Council and, if necessary, by the Railway Staff National Tribunal. ASLEF, which is seeking similar "commission" payments for all footplatmen to those negotiated for 1,600 National Union of Railwaymen pay-train guards, had the option of taking the issue independent advisor, said ASLEF with a given priority. It also provided ASLEF with position to analgamate with the other two: The NUR has submitted an anignment with the other two: The NUR has submitted an anignment of the work of the three negotiating tiers for major its seeking similar "commission" payments for all footplatmen to those negotiated for 1,600 National Union of Public anil Union of Public Employees. The NUR has submitted an other two: The NUR has submitted an anily point executive made up of 50 per cent. NUR members with a giont executive annual conference with half the delegates coming from the NUR. ASLEF, which is seeking after it has been tabled by ASLEF. The panel of the numbers with a giont annual conference with half the delegates coming from the NUR. Mr. Jenkins said he was prepared to consider establishing a joint trade union committee of a joint trade union com

THE UNOFFICIAL seamen's well at Townsend Thoresen's strike that disrupted Townsend service between Caira Ryan in Thoresen ferry services to Hol-Scotland and Large in Northern land and Ulster over Easter has Ireland.

THE STRIKE of 30 supervisors at the Immingham-based Humber Graving Dock and Engineering Company, which has caused more than 700 men to be laid consistent steward after he was convicted of a drugs offence.

ANCIAL TIMES REPORTER

GOVERNMENT and the public service employment, off, is near the end of its fifth should get together to training subsidies and spending week with no sign of a settle-THE GOVERNMENT and the TUC should get together to tackle unemployment, Mr. David Basnett, general secretary of the General and Municipal Workers. Substantial investment also was Union, said yesterday. He predicted that unions would not accept a further rigid wages policy.

Mr. Basnett told a meeting of the union's Scottish regional council that the union movement had a responsibility to do some option for the employer and a responsibility to do some thing. about unemployment

thing about unemployment necessity for workers.

Tather than leave it all to the Government.

He called on the Chancellor accepting wage restraint over the company says, were absent withto use his resources, both now past two years but they were now out leave. The other supervisors and in his deployment of North left with problems of wage structure, differentials and technological re-instatement demand which Mr. Basnett suggested expanding cal change in industry.

a return to normal working.

Townsend Thoresen agreed that there would be no loss of TWO MINEWORKERS ions for seamen involved in the dispute.

to Rotterdam and Zeebrugge as beneath a tram lift.

The strikers were given seven days' notice for starting their industrial action and their union urged them to go back to work.

Port slacker

Wednesday between management, TOURIST TRAFFIC through the Discussions by the employers cials and the striking seamen's port of Dover last month was and the technical and supervisory section of the engineering to drop their claim for reinstate.

union, which represents the man of the claim for reinstate. ment of the steward and resume
2.61 per cent. and cars by 6.24
work
They also agreed that other tional because of industrial issues involved in the dispute—
such as payments and man-i-

Pitmen killed

Windsor Colliery at Ynysbwl The 13-day-old strike disrupted South Wales, yesterday. Surface holiday sailings from Felixstowe fitters, they were working

Water workers vote Number of strikes fell last month

BY PHILIP BASSETT, LABOUR STAFF

monthly total since July last benefits.

Steel workers

create plan

to save jobs

switch in production to supply smaller specialist steel orders in

day. "We will be giving the workforce a precis of the plan and asking for approval. This

is a solution to keep us in work."

Belfast private

the eWst Midlands.

THE NUMBER of strikes fell nearly two-thirds of all the caused 3,000 workers to be laid last month, with 12,600 off.
beginning, involving about 42,300 workers directly involved in workers. A total of 537,000 work stoppages about wage rates, earn-tings days were lost, the lowest ing levels, extra wages and fringe monthly total since Trivillant banades.

Gazette.

The number of working days lost through strikes in the first two months of the year was 175,000 up on the same period profinent stoppages during the month: a grading dispute by 120 progress chasers at Rolls-Royce down by 48 on January's total of in the West Midlands, when son 185, and the number of workers process workers were laid off; involved in stoppages was down by 34,000. Last year's strike unresolved pay parity claim by 34,000. Last year's strike unresolved pay parity claim by figure showed an upward trend, a son storekeepers at GEC Teles marked reversal of the falls of the previous two years.

Pay was the principal cause of Ehlaw Vale steelworks, which

total number, worked overtime in the week ended January 14. grievances within British Rail's ary.

comed the report, will discuss the ballot in favour of the manage.

The panel, under Lord McCarthy, chairman of the Rail-burgary way Staff National Tribunal, the believed to be a "sectional" pay restructure, but sitting as an independent advisor, said exercise.

The panel, under Lord McCarthy, chairman of the Rail-burgary way Staff National Tribunal, the highest tier in the railways negotiating structure, but sitting as an independent advisor, said exercise.

The NUR ment's offer.

All manual workers in the electricity in ment's offer.

All manual workers in the public sector with real industrial strength who have deal following acceptance by lindustrial strength who have feating thus wage of \$34,000 workers were continued from January, conditions and supervision, cansidated total of liagum, hours, and dustry's 1972 pay restructuring an independent advisor, said exercise.

It also provided ASLEF with solutions are provided ASLEF with position next week. The NUR ment's offer.

The rail unions, and manual workers in the electricity in ment's offer.

All manual workers in the electricity in ment's offer.

All manual workers in the public sector with real industrial strength who have deal following acceptance by industrial strength who have dustry's 1972 pay restructuring an independent advisor, said exercise.

In the werk ended January 14.

The rail unions, and manual workers with the only groups in industry have now accepted the public sector with real industrial strength who have deal following acceptance by industrial strength who have dustry's 1972 pay restructuring and disciplinary.

The rail unions and manual workers in the electricity in workers with real workers with real industrial strength who have deal following acceptance by industrial estimated number on short time in these industries was 46,900, or about 0.9 per cent. of all employees, each losing 16 hours

Output higher, but

WORKERS AT British Steel, Bilston, Staffs, will meet to-day to consider ways to save their jobs. Shop stewards have com-piled a plan for alternative pro-duction which they say of a temporary realist Deep Duffryn will not have a

The Randfontein **Estates Gold** Mining Company, Wit., Limited



Humber dock

deadlock

Western Areas Gold Mining Company Limited

Members of the Johannesburg Consolidated Investment Group of Companies. Incorporated in the Republic of South Africa.

Highlights from the 1977 Chairmen's Reviews

*Profit for the year amounted to R47 435 000 and dividends to shareholders totalled R18 947 000 (350 cents). Capital expenditure of R110 756 000 was financed largely by long term consumer loans and bridging finance totalling U.S.\$103 800 000.

* Underground operations were expanded to include both Cooke No. 2 shaft and the S.D. 32 shaft at Randfontein Section. The Millsite uranium plant was commissioned and the new integrated gold and uranium Cooke Plant is currently being commissioned well ahead of schedule.

* Ore broken at Gooke No. 2 shaft and 5.D. 32 shaft surplus to the capacity of the Millsite plants, is being stockpiled on surface to provide a reserve of available ore when Cooke Plant commences milling in mid-1978.

* Dewatering of the Randfontein Section has proceeded apace and the water level is now close to 21 level. 950 metres below surface. The re-establishment and re-equipping of each level and of stope faces is proceeding as planned. Stoping operations commenced in

* A significant decrease in the overall gold recovery grade is inevitable when additional low grade ore from the Randfontein Section and Cooke No. 2 shaft is treated. Total production of gold will, however, be greater as a result of the increased throughput and uranium revenue will compensate for any effect on revenue of the lower average gold recovery grade.

further underground expansion and a decision to proceed with the sinking of Cooke No. 3 shaft is anticipated in the latter part of 1978. * An agreement has been entered into with the Johannesburg Consolidated Investment Company, Limited whereby Randfortein, has a 50% participation in prospecting for, and it economically leasible, the mining of uranium in the Karoo basin of the Cape -Province and Orange Free State.

-18---4-2-- 10-4-4---

*Once Cooke Plant is on stream consideration will be given to

Johannesburg | 30th March, 1978

Bernard Smith, Chairman'

* Profit for the year was R14011000 and capital expenditure amounted to R6688000. Dividends totalling R5240000 (13 cents) were paid to stockholders.

* Production was disrupted by a major underground fire and an estimated production loss of 238 000 tons milled was incurred. Fire fighting expenses amounted to R998 000 and an insurance settlement of R3 108 000 in respect of the loss of profits claim was...

* Progress towards the planned position of the S.V. 3 sub-vertical shaft continued to be hampered by the intersection of water-bearing fissures. However new strategies were implemented and better progress is now being made.

* One of the primary objectives of the mine remains the attainment of a production level of 370 000 tons per month. It is intended to stockpile broken one on surface in times of surplus underground labour in order to provide a reserve to be drawn upon when circumstances so require.

* Within the financial constraints imposed on the mine by the extensive capital expenditure programme necessary to develop and exploit the southern section of its lease area, the Board intends to examine the possible exploitation of all accessible reef horizons for uranium.

* Exploratory underground drilling from existing levels continued and uranium values show an encouraging consistency, particularly on the E9EC horizon. Development towards the area delineated by drilling as being the most favourable has commenced on 48 and 50 levels in order to confirm borehole results.

* Feasibility studies are continuing to establish whether uranium production is viable.

P. A von Wielligh. Chairman

The Board of Directors of Elsburg Gold Mining Company Limited draws stockholders' attention to the highlights of the Review by the Chairman of Western Areas Gold Mining Company Limited.

SUMMARY OF OPERATIONS

vangion	item Estates		western areas				
1977 1976		1976 Year Ending 31st December.		Year Ending 31st December. 19		1976	
1 131	944	Tons milled 000's	3 579	3 585			
15.46	16.95	Recovery - grams per ton	6,00	6.37			
R21,23	R18.11	Cost - per ton milled	R21,56	R17.22			
R41,94	R39.02	Profit - per ton milled	R4.30	R4.57			
TS8115	T.S.\$123	Average price per ounce	US 8147	U.S.8120			

The annual general meetings of these companies will be held in the board room. Consolidated Building, corner of Fox and Harrison Streets. Johannesburg on Wednesday 26th April, 1978 at. Western Areas Gold Mining Company Limited 09h15: Elsburg Gold Mining Company Limited 10h15: The Randfontein Estates Gold Mining Co. Witwatersrand, Limited 11h15.

Note: Copies of the full Chairmen's Reviews and Annual Reports of each Company will be sent post-free on application by letter or telephone to:

The London Secretaries. Barnato Brothers Limited. 99 Bishopsgate, London EC2N 3XE. Tel. No.: (01) 588-7011.

Address

mine is to close

piled a plan for alternative production which, they say, will keep the plant economic well into the 1980s.

The plan was drawn up after British Steel in Sheffield gave a warning that the works could be closed because of the industry's general recession.

A SOUTH WALES colliery will Mineworkers have agreed that close within two years, in spite Deep Duffryn will not have a production. The South Wales NCB said people are shown was described by the plan was drawn up after Monntain Ash Mid-Glamorgan taken because reserves would not shire, made a 140,000 profit last justify working after 18 months. Monthly losses of more than 18 months. Monthly losses of more than 18 months. Warning that the decision was shire, made a 140,000 profit last justify working after 18 months. Monthly losses of more than 18 months. Warning that the decision was shire, made a 140,000 profit last justify working after 18 months. Monthly losses of more than 18 months. Warning that the decision was shire, made a 140,000 profit last justify working after 18 months. Monthly losses of more than 18 months. The South Wales NCB said people with the decision was shire, made a 140,000 profit last justify working after 18 months. Monthly losses of more than 18 months. The South Wales NCB said people within two years, in spite Deep Duffryn will not have a production.

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The South Wales NCB said people within two years, in spite Deep Duffryn will not have a people within two years, in spite Deep Duffryn will not have a people within two years, in spite people within the decision will not have a people within the people will not have a people within the people w

The 2.400-strong workforce will be asked to approve the plant of the compiled with management consent over the past six months.

Details are being kept secret but it is understood that the but it is understood that the second of the consent over the past six would guarantee the pit's future but it is understood that the but it is understood that the second of the some time.

Life for some time.

Life for some time.

Life for some time.

Details are being kept secret but it is understood that the life for some time.

Management offered an assent-

Details are being kept secret would guarantee the pit's future surface kept breaking guwn. but it is understood that the life for some time.

However, the South Wales ment of the machinery but the region of the National Coal men refused to return to work there are also proposals for a Board and the National Union of after the Easter break.

Mr. Dennis Turner, action Plan to log sea progress after loss of boat

BY OUR ABERDEEN CORRESPONDENT

SCOTTISH fishermen and coastguards will meet to-morrow week Aberdeen that inshore boat to discuss methods for position skippers who fish the more discretion at sea after the loss tant North Sea grounds of Nortlast month of the seine net boat way will meet coastguards to the hospital row 🙏

rederation of Health Service east of Shetland, but the alarm for special wavebands. Employees have asked the Irish was not raised for five days after The Scottish Herring Pro-Congress of Trade Unions to her last known radio contact. ducers' Association and Scottish black the construction of a The two main fishermen's White Fish Producers' Association and Scottish private hospital in Belfast. They organisations covering herring tion, covering 450 boats in the say it would provide favourable and white fish catchers in north-east, have written to the treatment for those who could least Scotland have since asked Trade Department. Post Office and would deprive the for the introduction of a special

It was announced yesterday in hospital row . Estempiso. chief inshore boat fishing port. The Praserburgh boat was lost of Peterhead to discuss report. ULSTER officials of the Cons with her eight-man crew 90 miles back methods including the call

telecommunications National Health Service of pro- waveband allowing boats to make Home Office asking for con-fessional staff.

24-hour position checks.

Sideration of a 24-hour waveband.

Merrill Lynch International now accepting orders for the European Options Exchange in Amsterdam

■arlier this year, Merrill Lynch International & Co. was admitted to membership on the European Options Exchange, and today we are pleased to announce that Merrill Lynch International offices around the world stand ready to accept orders for European Options Exchange transactions when trading commences next Wednesday in Amsterdam.

Merrill Lynch's Dutch affiliate, Merrill Lynch N.V., has also been admitted as a Clearing Member and a Floor Broker (as well as a Public Order Member), and its clearing office in Amsterdam at Dam 27 is now open for business. Financial institutions interested in availing themselves of these clearing services should get in touch with Geoffrey Stanley in Amsterdam (Tel. 20-26-4888).

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Financial Times Friday March 31 1978

SERVICES

Acquire now computer power 100 the statistic variety and CRC to the policy of the poli

Cleaning components one of the latest centrifugal ceramic tubes instead of metal blast-cleaning machines devised blades and one of the great adbles tis now being used vantages is that while the control increase output and cut metal plete plant is smaller in size

up to four feet long

one of the latest type of Scalomatic machine produced the past the running-in stage, is called up in any order. There is that is letter the position of the projector can required finish and this was equipped with a monorated as mark that any component can be encountered.

The fully enclosed plant, now that any component can be encountered.

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The fully enclosed plant, now that any component can be encountered.

The fully enclosed plant is linked to a component clamps of the board is linked to a component clamps. abrasive) instead of the eight traditional abrasive - finging Vacu-Blast, which has its head same board can be more easily coded at the same time on a manufactured.

The Scalomatic's wheel has member of the Scalomatic's wheel has member of the Scalomatic's wheel has member of the BTB Group.

The Scalomatic's wheel has member of the BTB Group.

With just one kitting of the com- appropriate insertion time.

Film can be exposed and same board can be more easily coded at the same time on a manufactured.

The new system, LS100, has an (blanked off sprocket holes are overhead projector (like, a photo used for coding) or Parfitt will enlarger head) throwing images undertake the task from contact.

to increase output and cut metal plete plant is smaller in size

achieved with a plant which veyor and is installed as part senuence.

for paced production, allowing used only four of the special of an in-line process which This means that several board the manager to indicate, by pre-Vacu-Blast tubular wheels starts with degreasing followed assemblies can be undertaken coding on each frame of film, an twhich are used to propel the by abrasive blasting and ending with just one kitting of the compaporopriate insertion time.

The Scalematic's wheel has member of the BTR Group.

Taking the dust away

signed to handle baskets of combe added to the machine for dryponents. The baskets are rotated during washing, usually in boiling trichloroethylene, and again agents can be used.

Weasuring radio noise

AN AIR humidifying unit has ing air nozales to produce very been added to the range of clean fine mist which is then blown out air control enuipment offered by by a rectirculating fan. It is palesman Scientific Company, Pendlebury, Manchester, M27 2FH (061-794 5724).

The Mistflow 20 has an output of 520 how per individual cleaning no resultant dripping or wetting and could humidify levels can be obtained for the unit operates on the cold water atomising principle, utilis.

The unit operates on the cold water atomising principle, utilis.

Removes the grease

Two FULLy enclosed degreasing machines with inner components made from stainless steel are been from

--

during the drying cycle.

This machine will deal with be obtained from Uddeholm at between 15 and 20 baskets (each Crown Works Ruhery, Birming, carrying up to 150 kg of parts) ham B45 9 AG (021453 6161).

COMPUTERS

**MAEL, 5000 is a new and fast character disc memory and microcomputer offered ideal for inclusion in software house and priced around f18,000 for any ronsultancy packages and for single purchase, with consider-existing multiple users of minis. They specifically meet the principal assets besides a 500 ware houses and other major perturbations.

**PUT ON the market by Eddy-interference with pulse rates stone Radio (a GEC Marconi from 1 kHz down to isolated company) is radio noise pulses can be measured company) is radio noise pulses can be measured measuring equipment likely to be of interference, and to authorities which monitor it.

Two systems are available aerials and artificial mains networks: the former will allow standards laid down by the measurements to the major combined international Special destants.

**PUT ON the market by Eddy-interference with pulse rates stone Radio (a GEC Marconi from 1 kHz down to isolated company) is radio noise pulses can be measured accurately. The units are easy be of interference, and to authorities which monitor it.

Two systems are available, aerials and artificial mains networks: the former will allow standards laid down by the measurements to interference existing multiple users of minis. able discount terms for the soft-former major.

**PUT ON the market by Eddy-interference with pulse can be measured company) is radio noise pulses can be measured company) is radio noise pulses can be described to some and accurately. The units are easy be of interference, and to subscribe a produce a range of associated authorities which monitor it.

Two systems are available, aerials and artificial mains networks: the former will allow the pulse of the stone company its radio noise pulses. The pulse of interference and to subscribe a pulse of interference of electric Principal assets besides a 500 ware houses and other major nano second cycle time are users needing machines of this capacity to use much of the existing software for other minis and micros, and low prices for equipment of its kind.

IBM 2780, 3780 and Hasp W/S emulators are available, with software interfaces due in the near future

Existing nulliple users of minis, able discount terms for the software interfaces due in the near future

Comite International Special des that has been conducted into the Perturbations Radioelectriques mains supply.

Comite International Special des that has been conducted into the Perturbations Radioelectriques mains supply.

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Both continuous wave (sine mains supply.)

Both continuous wave (sine mains supply.)

Both continuous wave (sine mains supply.

Bo

other software interfaces due in the near future.

A typical single terminal More details from Computer from cycle times by a plugboard. MAEL 5000 including VDU and Ancillaries, 64 High Street, controlled automatic lathe that the slide. There is a six-station marketed by Machine Tool and rear slides. All slides are a result to the slide. There is a six-station that the slide are slides. All slides are



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Searching for power at lower cost

enlarger head) throwing images undertake the task from custo-from a 35mm film cassette which mers' artwork.

can accommodate 150 images. The company maintains that For a given hoard the operator for an expenditure in the £1,500 uses a pedal to sequence the region. work throughput inframes and insert the wire legs creases of 50 to 80 per cent are of the components as projected, readily obtainable in comparison

This is possible because the hydraulically actuated, as are machine's Tracel control system the collet, bar mechanism and programs sequences in such a turret clamping, way that they do not have to Spindle speeds from 90 to start or end simultaneously. 2,000 rpm are available in three Thus when a long forming cut are available in three

Thus, when a long forming cut ranges. Maximum slide traverse is taking place externally, the is 4 ins, and maximum turret

Two versions of the machine per cent, and up to 32 sequences

are available: one with a collet can be programmed.

and third vertical part-off slide. More from MTA. Wedgnock for bar work, and a chucking Jadustrial Estate. Rothwell Road.

for bar work, and a chucking Industrial Estate. Rothwell Road, version without a part-off slide. Warwick (0926 46361).

Average time reduction is 20

turret can be used to centre stroke is 6 inches. drill, drill and bore the end. Average time re

Minis for business use

PLANNING TO tap a rowing will be developing its own the entry in the pull would be 18kW respectively. Which is variance with the experience of meets as the land bases and stry the last stiended and pollutions. The entry in the pull would be 18kW respectively. Which is variance with the experience of meets as the land bases and stry the last stiended and pollutions. The entry in the pull would be 18kW respectively. Which is variance with the experience of meets as the land bases and stry the last strength of the company of the entry in the pull the way of the entry in the pull th

DESIGNED by Lumsden Machine on the convex surface of a rigid strip breaks the copper path, module has a heat output of Company for its multi-pass block which lies in the descend- the descent rate of the head is 50kW (170,000 Btu/hr.) and the Further information from the More from Hawks Road; Gates company at 18. Mannings Heath head, Tyne and Wear. (0632 Road, Parkstone, Poole. Dorset,

grinders is an abrading contact ing path of the grinding head, switched from coarse to fine for exhaust gas is discharged from device which will ensure that The unit is mounted on a rigid the removal of the last 0.005 in a single flue. Standard cabinets depth of cut is controlled constainless steel pillar which is of metal. Severance of the take from one to six modules eighboring and automatically to Special cabinets are sistently and automatically to fixed to the edge of the grinding second strip stops the head feed (300kW) and special cabinets are tolerances down to 0.001 in table and can be precisely and triggers a feed re-setting available to accommodate boilers (0.025 mm).

Tescence of the device is a pair of cliding clambs and a helpful works/second strip stops the head feed (300kW) and special cabinets are tolerance of the device is a pair of cliding clambs and a helpful works/second strip stops the head feed (300kW) and special cabinets are tolerance of the device is a pair of cliding clambs and a helpful works/second strip stops the head feed (300kW) and special cabinets are tolerance of the device is a pair of cliding clambs and a helpful works/second strip stops the head feed (300kW) and special cabinets are tolerance of the device is a pair of cliding clambs.



MARCH ISSUE

The March issue features two major articles on the Erwin Untermeyer collection in the Metropolitan Museum; one covers 18th century English furniture and the other discusses Renaissance sculpture. The theme of sculpture continues with articles on Italian sculpture, a new portrait of Rupert of the Rhine by Dieussart (compared with Bernini's bust of Charles I) and the oeuvre of Thomas Woolner, a pre-Raphaelite sculptor.

Another article covers drawings for the Royal Pavilion in Brighton and there is a very important article on the development of taste in AFRICAN

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'Reversing the engines of exodus'

been reversed." That phrase, the power to provide financial alluding to the policies of a and other aid to industry, pargeneration aimed at dispersing ticularly but not exclusively in jobs and people away from the the inner cities. Success in over-crowded and decaying helping industry in areas such urban areas, is a favourite of as Lambeth or Liverpool could Mr. Peter Shore's since he took eventually have a far greater on the job of Environment significance in the long term for Secretary two years ago. During that time he has Doncaster. Success in one area effectively put the brakes on the will. It is argued. lead to

highly successful Location of greater local authority involve-Offices Bureau in resiting com- ment throughout the country. panies away from London and Yet choosing the cities to act virtually sounded the death as a catalyst was based on poliknell to future expansion of tical and pragmatic reasons as the New Towns.

been a negative one. In place holds and it is the sheer scale of the "engines of exodus" Mr. of the crisis facing the cities in Shore has attempted a double the 1970s that has concerned policy. In the immediate future Mr. Shore. He is, incidentally, he is setting great store by the the first Environment Secretary Areas Bill, which has just com- inner London constituency facpleted its committee stage in ing the problems of decline the Commons, to provide a (Tower Hamlets, Stepney and regeneration of the inner cities. Poplar).

stay at the Department's offices ent." he points out. " Economic in Marsham Street. West decline has been followed by minster, will mark the begin intensified social problems, ning of a new attitude among unemployment. orities towards helping indus dalism. The communities in-try. He believes that the volved have to live in a depresernment — the largest organisa. In some areas, racial tension. tion in the country — must be harnessed to help overcome the has devised for regenerating

Wholehearted

"THE ENGINES of exodus have legislation, give local authorities the businessman in Dover or

much as any other. The cities Yet his strategy has not just are traditional Labour strong-Inner - Urban for 20 years to represent an

In the longer term, however. The symptoms of decay and Mr. Shore is hoping that his dereliction are only too apparcivil servants and local auth- population imbalance, and vanimmense power of local gov. sing physical environment and,

problems of the businesman at the inner cities is two-fold.

First the concept of "partner-ship areas" has been introduced as a means of identifying those local authorities most in need of special attention. The seven in industrial matters as whole and the adjacent London bor the bulk of aid going to the authorities.





Decay in the cities: part of Liverpool (left) and London's Dockland with Mr. Peter Shore, Environment Secretary, superimposed in the foreground.

heartedly as they are respons oughs of Hackney and Islington, partnership areas and some The second plank in the and installation of services, of Mr. Shore accepts that "few and constructive response to in- to provide jobs. For example,

Wirral. Bradford, Hull. Shef. the partnership areas in Lon- Bill is the first blanket legisla- In addition, the Bill will Mr. Michael Heseltine, the Con- formation: co-ordinating the Wilcox, to create a

town halls. The Bill will, for deemed in need of special help projects are allocated, areas and 15 special-help local new jobs. In specific partnership will be nil," says Mr. Heseltine, codures; explaining exactly and accountability of property time through general are currently drawing up a Although the new urban pro-authorities as well as some areas, local authorities will be Yet Mr. Shore remains con-what help the authority can or bodies.

Local authorities, he argues, partnerships (between local three-year programme for gramme is concentrated on 22 other local authorities in need able to give grants towards industry of having effective and to be seen, have a vital part to play in authorities and central govern, action to start in the 1979-80 specific local authorities, other of aid for urban renewal. The rents to help companies taking regular means of communication to be seen, authorities and central govern, action to start in the 1979-80 specific local authorities, other of aid for urban renewal. The rents to help companies taking regular means of communication to be seen, authorities and central govern, action to start in the 1979-80 specific local authorities, other of aid for urban renewal. The rents to help companies taking regular means of communication authorities, however, the Government's industrial ment's are in Birmingham, Liv. financial year. The existing authorities with urban problems Bill will empower to be a seen, and the companies taking regular means of communication authorities, other of aid for urban renewal. The rents to help companies taking regular means of communication authorities, however, the companies taking regular means of communication and strategy. But first they must erpool. Manchester. Salford, urban programme's allocation can still receive help. In authorities to make loans at authority. And interest free levels." overcome their traditional Lambeth, the docklands of Lon- of £30m. a year is to be in- 1978/79 some £10m. has been commercial rates for land pur- loans for up to two years will Moreover. It reminds local of local authorities are for reductance to involve themselves don. Newcastle and Gateshead, creased to £125m. a year, with allocated for helping these chase as well as construction be available for bringing inner authorities of the importance to their own partnerships and modification of buildings city sites back into use.

Hence the importance of the field, Wolverhampton, Leicester, don, Birmingham, Islington and tion giving such powers.

Inner Urban Areas Bill. Mr. Nottingham, Leeds, and Ham-Hackney will in future take It covers those "designated ment Areas where local author-on the environment, argue that the local inner urban as mersmith.

Shore sees th's legislation as mersmith.

Establish Industrial Improve servative Opposition spokesman authority's own information on force "between the private ment Areas where local author-on the environment, argue that the local inner transfer it will have little practical effect. Governments and the private sector's flair industrial industr establish Industrial Improve servative Opposition spokesman authority's own information on force" between the private the catalyst to spark off a. The seven partnership areas Areas when Industrial Develop- the Government, although these environmental improvements or "Its impact on all except a other bodies; guiding industry ability to decide and act qui change in attitudes within the and 15 local authorities also ment Certificate bids for new will include the partnership to convert buildings to provide negligible number of companies through local authority pro- with the social responsi-

effective when considered in alternative sources of assistanting with the "main ance," thrust of government assistance

for housing, education, roads, are asked to give priority But it is also in the Bill's and to consider proposi wider context—acting as a catalyst in changing local ment of Environment h authority attitudes towards local recently speeded up its part industry—that Mr. Shore is the planning process. Lolooking for success. He believes authorities are also asked

and employment in their areas.

Circular

Formal advice to local authori- creating confidence for inv ties on how to help industry has ment are unrealistic w been given by the Government industry in general is airc in a recent circular. But Mr. running at S0 per cent. or shore is well aware that such than full capacity through advice is easy to give; the imof demand," argues a Lat
portance is how local authorities
Party document. And it po

The circular argues that in- is offered to local author dustrial success depends greatly than advice alone." on confidence, stability, and the facility to adapt production to the biggest question mark the strategy is how much he change attitudes both with this own department and an growth by showing an awareness and understanding of the needs eventually leaves Environn of industry and a willingness to either for another Cabinet help," it says. "Keeping in- or the Opposition benches. dustrialists informed of develop-ing policies and providing them cities and for greater inv with opportunities for feeding in ment by local government their own views is obviously industry have owed a great important. Many authorities to his personal interest have already recognised the energy. advantages for them and for survive his departure ren

Moreover, it reminds local of local authorities are for industrial companies of a quick local companies in an att ible for schools. roads, and some including social services. Local authorities social services. Local authorities social services. Local authorities social services. Local authorities for schools are also earmarked as being of the local authorities. In addition, the pertnership areas and some of the land and buildings. In addition, the pertnership areas and some of the land and buildings, has been encounted for schools. The second plank in the and installation of services, of the value large-scale employment projects of the land and buildings.

A further 15 local authorities and suggests a named private company, Westming the large-scale employment projects of the land and buildings.

In addition, the pertnership areas and some of the value large-scale employment projects of the land and buildings.

In addition, the pertnership areas and some of the value large-scale employment projects of the land and buildings.

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vinced that the Bill will be cannot provide; and suggesting

Specifically, local authoritie industry for planning reques schemes "flexibly." The Depa that in the past local authorities release land for industr have been less alert to the prob- development where possible ; lems of the businessman and to give priority to house have given a much lower employees of companies mov

priority to the needs of industry into the area. Yet Mr. Shore's approach been heavily criticised. So of the most pungent comme have come from the Lab Party itself. "The objective out that " it is crucial that n

But for Mr. Shore, prob local authorities before

CONTRACTS AND TENDERS

CALL FOR TENDER



EMIRATES & SUDAN INVESTMENT CO. LTD.

TENDER FOR THE CONSTRUCTION OF 200 WAREHOUSES (RED SEA REGION)

PHASE ONE: 34 WAREHOUSES AT PORT SUDAN

- 1. The Chairman of the Board of Directors. Emirates & Sudan Investment Co. Ltd. invites Tenders from competent contractors for the construction of 34 "Thirty four Warehouses complete at Port Sudan (D.R. of Sudan) as phase one from the total number above.
- 2. The Tender Documents "in English only " can be obtained from the office of the Managing Director of the Emirates & Sudan Investment Co. Ltd., 16 Babiker Bedri St., P.O. Box 7036. Khartoum. Telex 524 EMSU KM. Telegraphic Address: EMSU Khartoum, during office hours against payment of L.S.100 (one hundred Sudanese pounds = £145 US\$290) non-refundable.
- 3. Tenders will be accepted for 4 warehouses as a unit and Tenderers should deposit a sum of L.S.4000 (Four Thousand Sudanese pounds) or its equivalent in other convertible currencies either by certified chemie or a letter of guarantee from a reputable bank valid for at least three months after the closing date as a preliminary deposit in the name of the Managing Director, Emirates & Sudan Investment Co. Ltd., for each unit. Tenderers for more than one unit should multiply their deposit accord-
 - Separate offers per unit for lighting and fire systems may be added as option.
- The successful Tenderer/Tenderers shall be asked to sign formal contract within two weeks after being notified of the acceptance in writing and to complete the deposit to 10% (ten per cent) of the total value of the contract either by a certified cheque or a letter of guarantee from a renutable bank valid for one year after handing over all works. Other forms of guarantee may be required for longer period.

Any other plans for payment that may lead to the reduction of the cost could be proposed by the tenderers.

If the contractor fails to sign the contract within the specified time, he shall lose his right to recover the preliminary deposit.

- 5. The preliminary deposit shall be refunded to the unsuccessful tenderers two weeks after the firm award of the contract.
- Tenderers shall state clearly the followa) The names, qualifications, and experi-ence of engineers and technicians who

- will be responsible for the execution of the works.
- b) Examples of similar projects they have executed.
- c) A detailed programme specifying the progress of the works and the time required for the completion of all works specified in the tender and shown in the drawings, as from the date of the signature of the contract.
- d) A list of equipment and machinery in their possession necessary for execution of the works.
- 7. The supply of all materials, equipment and machinery whether local or imported necessary for the execution of all works is solely the responsibility of the Contractor.
- Tenders shall be valid for at least three months after the closing date mentioned in para (12) below. The offer may be based on the detailed alternative or for an accepted alternative to be presented in detail to the Managing Director.
- 9. All information relevant to the tender shall be submitted in English Language.
- For imported items, The Emirates & Sudan Investment Co. Ltd. will directly pay all insurance. clearance, customs and other
- 11. Foreign Currency will be paid directly from The Emirates & Sudan Investment Co. Ltd. reserves with The National Bank Abu
- Tenders should bear the prescribed stamp duty and should be addressed in sealed envelopes bearing the words (TENDER FOR THE CONSTRUCTION OF WARE-HOUSES AT PORT SUDAN), to The Managing Director. Emirates & Sudan Investment Co. Ltd. and should be delivered to the Tenders Box at the Company's Head Office, 16 Babiker Bedri St., 3rd Floor, Khartoum, Sudan, not later than 12.00 Noon Sudan Time Tuesday the 20th of June 1978.
- 13. Any tender which does not comply with any of the above-mentioned requirements will be rejected.
- The Chairman of the Board of Directors. Emirates & Sudan Investment Co. Ltd., is not bound to accept the lowest or any other tender.

A FINANCIAL TIMES SURVEY WORLD BANKING

PART I MAY 22, PART II MAY 30 1978

The Financial Times annual Survey on World Banking will be published in two parts—Part I on Monday May 22 and Part II on Tuesday May 30. The proposed editorial content is set out below.

ITALY

IRELAND

AUSTRIA

Part I INTRODUCTION The world economic and financial scene. World-wide recovery from recession remains sluggish, despite growth in

INTERNATIONAL MONETARY ARRANGE-MENTS The International Monetary Fund calls for more rapid economic expansion; the role of the Fund and central bank arrangements in providing support for countries with balance

of payments problems. OIL FUNDS Outlook for the oil price against the background of the decline in the dollar: impact of the growing import demand of the

oil-producing countries. INTERNATIONAL BANKING Further growth in international activities against the back-ground of generally depressed home demand in

the industrialised economies. INTEREST RATES Sharp declines in many European countries, particularly Britain, reflecting in part the weakness of the dollar. GOLD The market price has risen sharply to its highest levels for nearly three years as

demand has revived.

EUROPEAN INTEGRATION The idea of monetary union has been revived by Mr. Roy

BANKING REGULATIONS Important steps have been taken within the European Community towards the harmonisation of banking controls; new legislation expected in the U.K. THE CITY OF LONDON The City has held on to its position as a leading international banking centre, but there are signs of increasing competition from other centres.

FOREIGN BANKS IN LONDON The international banking community continues to find the City attractive as a centre for offshore operations.

MULTINATIONAL BANKING Considerable changes have taken place in the consortium banking business.

EXPORT FINANCE Important moves in Britain to reduce reliance on sterling and continued international concern over the issue of competition in export finance.

The remaining articles will review economic ISRAEL and industrial developments in the countries listed, with particular reference to the banking and financial sectors:

COMECON YUGOSLAVIA GREECE

FRANCE WEST GERMANY SPAIN PORTUGAL AUSTRALIA NETHERLANDS NEW ZEALAND BELGIUM/LUXEMBOURG CANADA DENMARK SINGAPO SINGAPORE HONG KONG SWITZERLAND FINLAND TURKEY NORWAY/SWEDEN

Part II THE POUND The sharp revival of confidence in sterling, coupled with the weakness of the dollar, has presented problems for the U.K. Government.

THE DOLLAR Sustained pressure on the U.S. currency against the background of the growing

U.S. balance of payments deficit. EUROMARKETS Further expansion of activity in both the medium-term credit market and Eurobond issues.

PROJECT FINANCE Development of international banking to meet the needs of largescale project finance.

NON-OPEC DEVELOPING COUNTRIES Reliance on a recovery of commodity prices as the industrialised countries expand; balance of payments problems and concern over possible detaults on their debts.

DEVELOPMENT FINANCE The role played by private banks and the official agencies in overcoming the difficulties of the less developed countries.

NEW CENTRES Growing competition felt by the established financial centres from new markets and offshore banking centres. Economic, financial and industrial developments in the following countries:

U.S. (abroad) JAPAN (home) JAPAN (abroad) ARAB WORLD I ARAB WORLD II

U.S. (home)

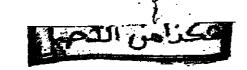
SOUTHERN AFRICA BLACK AFRICA IRAN THE CARIBBEAN INDIA PAKISTAN SRI LANKA LATIN AMERICA CHINA SOUTH KOREA

For further details on the editorial content and advertising rates contact: Adrian Secker (European Dept.) or Micheal Prideaux (Financial Dept.) or Helen Lees (Overseas Dept.) l'inancial Times. Bracken House, 10 Cannon Street, London EC4P 4BY.

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The content and publication dates of Surveys in the Financial Times are subject to change at the discretion of the Editor.





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- RESPONSIBILITY is for the financial direction of the group and includes the installation of forecasting and budgeting systems. A broadening of management responsibility is envisaged in the
- POST qualification experience must demonstrate a record of successful financial management, preferably in a similar field.
- AGE: 40s. Location South London. Farmings to £15,000.

Write in complete confidence to N. C. Humphreys as adviser to the group.

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Finance Director

FAR EAST

for the main board of a highly successful international company with a very large turnover derived from many sources.

- success in a main board appointment in a major international company is the prime requirement. Evidence of business achievement should include the appraisal and negotiation of acquisitions.
- TERMS are for discussion. Remuneration is unlikely to be less than the equivalent of £,45,000 together with exceptionally generous fringe benefits.

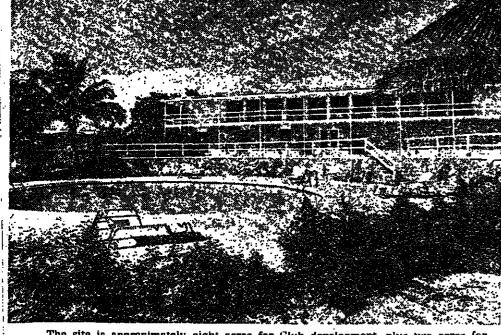
Write in complete confidence to K. R. C. Slater as adviser to the company.

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> FOR MORE INFORMATION Tel.: (809) 323-5555 Write: P.O. Box N-756, Nassau, Bahamas

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PERSONAL

URGENT IN DEED IT IS

ART GALLERIES

LUMLEY CAZALET, 24, Dames St., W. 499 5058, TISSOY—Forty etchings, dry points, and metzotants. Until 21 April AGNEW GALLFRIES, 43, Old Bond St. W.1, 629 6176. THREE CENTURIES OF ERITISH PAINTINGS. Until 28 APRIL Mon-Fri. 9.30-5.30. Thurs. until 7. Mon.-Fri. 9.36-5.30. There dies /
FOX GALLERY. Exhibition of the owingings by British and Euronean Artists
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London. W.1. Tel. 01-734 2626.
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GILERT PARR GALLERY, 285. King's
Road, Chebea, S.W.3. GLYN MORGAN
Liftysonic Oroheut Acollo 8. Marriedpaintings and drawious and April 15.
Ocen Tues-Sat. 9.30-5.30.

COMPANY NOTICES

UNION CORPORATION LIMITED

NOTICE OF ANNUAL GENERAL MEETING

NOTICE OF GENERAL MEETING

P. HURST. Secretary

Johannesburg 2001 30th March 1978.

30th March 1978. Copies of the full r London Secretaries. Princes House. 95 Gresham Street, London ECZY 785. Credit Suisse. Paradeplats. 8021 Zurich. Swiss Bank Corporal 1 Asschenvorstadt. 4002 Basie.

THE COPENHAGEN COUNTY AUTHORITY (C.C.A.) 6'1% 1968/1980 UA 10,000,000 On March 20, 1971, Sonds for the amount of UA 1,223,000 in for recemption in the presence of a Notary Public. are those NOT YET PREVIOUSLY REDEEMED.

1017 up to 3157 incl. Amount subject to redem floor JA 1.300.000. Amount bought in the market: UA 77.000. Amount unamortised: UA 2.600.000.

THE TRUSTEE KREDIETBANK TDK ELECTRONICS CO., LTD.

6108 6287 to 6290 Incl.

6490 and 6491 6711 to 6716 incl.

REPUBLIC OF COSTA RICA (CDRs) 5% Sterling Funding Bonds 1933 The undersigned announces that the Annual Report ended November 30th, 1977 of TDK Electronics Co. Ltd. will be available in Amsterdam at: Assented Bonds NOTICE IS HEREBY GIVEN that all outstanding Bonds of the above Loan have been called for Redemption at par (£174%) on the lat January, 1978 from which date all interest thereon will cease. PIERSON, HELDRING & PIERSON N.V.

hereon will cease.

The Bonds may now be presented or payment through an Authorised Depositary in London with Hambros lank Limited. Seeck Office Counter, 18 Bishogates. London. E.C.2 from rhom listing forms may be obtained, londs carnot be accepted through the lost. ALGEMENE BANK NEDERLAND N.V. AMSTERDAM-ROTTERDAM BANK N.Y., BANK MEES & HOPE N.V., KAS-ASSOCIATIE N.V. AMSTERDAM DEPOSITARY

Coupons due 1st January, 1978 should be described and collected in the usual manner. 31st March, 1978. March 28th. 1978.

GOLD FIELDS GROUP NOTICE RE CLOSING OF REGISTER OF MEMBERS **VOGELSTRUISBULT METAL** HOLDINGS LIMITED (Incorporated in the Republic of South Africa)
NOTICE IS HERBY GIVEN that the REGISTER OF MEMBERS will be CLOSED from 14 April to 20 April, 1978, both days inclusive, for the purpose of the Annual General Meeting. Meeting.

By Order of the Board.

C. E. WENNER.

London Secretary.

NOTICE OF MEETING TIME ASSURANCE SOCIETY

ASSURANCE SOCIETY
Registored Once:

45. Queens Road, Oldham, Lanca,
ANNUAL GENERAL MEETING of
atove Society will be held at the Re
tered Office at 12 noon on Tuesday,
April. 1978
ACENDA

By Order of the Board of Management. 31st March, 1978.

> THE GRESHAM STREET DOLLAR FUND N.Y. ited with immited liability
> Notherlands Antilles) the Fund are advis

Lilly Industries executive post for John Whitehorn

has been a deputy director subsidiary. general of the CBI since 1966.
Lilly Industries is a subsidiary of Eli Lilly and Co. of the U.S.

Mr. Johnson

Mr. W. C. Barris, a director and chief general manager of Phoenix Assurance Company, has been appointed a director of SAVE AND PROSPER GROUP following the retirement of Lord De L'isle, VC.

Mr. G. D. W. King will be joining the partnership of E. B. SAYORY MILLN AND CO. tockbrokers, on May 1.

Mr. Tony Blackburn, contracts manager of KLOCKNER PENTA-PLAST, has been appointed sales

Mr. Christopher H. Randag has been appointed to the Board of CHESHAM AMALGAMATIONS AND INVESTMENTS.

Mr. Fred Staveacre and Mr. Fred Siddail have retired as members of the Stock Exchange and from their associate membership with CHARLTON SEAL DIMMOCK AND COMPANY, stockbrokers. Mr. Siddail continues with the firm in an advisory capacity. Mr. Pavid W. Vourgram, who is David W. Youngman, who is responsible for the firm's research department, and Mr. W. Laurie Beevers and Mr. Graham Fairfax, both concerned with clients' portfolio management, become associate members of the Stock Exchange with Charlton Seal

April 1. On that date Mr. R. M. Muir-Simpson becomes company secretary to replace Mr. T. P.

Mr. Allan Williams, Minister of State, Industry, leaves London at head of mission to Japan ment in Britain.

Austrian Chancellor Bruno until December 31, 198
Germany.

Austrian Chancellor Bruno until December 31, 198
Germany. until December 31, 1980. He suc-

CBI Economic Situation Com-Mrs. Margaret Thatcher, Opposition leader, speaks at Food and Drink Industries Council lunch, Hotel Inter-Continental.

lunch, Hotel Inter-Continental, W.1.

Law of the Sea Conference continues, Geneva.

Institute of Personnel Management conference on The Impact of Government on Company Pay Policies and Industrial Relations, at Oxford Centre for Management Studies. Speakers include Lord McCarthy, Fellow, of Wiffield College and chairman of the Rallway Staff Tribunal; who also chairs the conference; Mr. J. M. Bowd, general sagretary, Amalemanted Union of Engineering Workers; Mr. B. A. Hepple, chairman, Industrial Tribunals (England and Wales); and Professor J. C. Wood, chairman, Central Arbitration Committee.

Forestry Commission annual

Forestry Comm Final day of National Associa tion of Schoolmasters and Union of Women Teachers' conference

Harrozate COMPANY RESULT Organisation (ful)

COUPANY MEETINGS

Alexanders Holdings Glasgow.

12. Baring Bros. 88. Leadenhall
Street, E.C., 12.30. Brunner Inrestment Trust, 20. Fenchurch
Street, E.C., 12.45. HT Investments, 28. Leadenhall Street,
E.C., 12.30. Howard Machinery. Inswich, 12.15. Howard Machinery, Inswich, 12.15. United Guarantee, Winchestor House, F.C., 12 Witter (Thomas), Withhell House, nr Charley, 12.

OPERA Royal Opera production of Death in Venice, Covent Garden, W.C.2, 7.30 p.m. English National Opera per-form Force of Destiny, Coliseum Theatre, W.C.2, 7 p.m.

MUSIC London Philharmonic Orches tra conductor Elgar Howarth soloists Martin Parry (flute). Roger Winfield (oboe) and Roger Wondward (piano), in pro-gramme of Ligetti (San Fran-cisco Polyphony, and Double Concerto for Flute and Oboe) List (Piano Concerto No. 2 in

A): and Barrok (Concerto for Orchestra), Royal Festival Hall, S.F.1, 8 p.m. Squash: British open cham-pionships, Wembley.

Fraud Squad detectives. commended

TWO City of London Fraud Squad detectives have been commended by the Commissioner, Mr. Peter Marshall, for their part in creacking a £257,000 fraud

Det.-Insp. Patrick Connolly and Det Insp. Alan Elms conducted a three-year inquiry into the activities of two men alleged to have obtained fees from businessmen an false promises of being able to obtain large sums from Arabs.

One man was jailed for five years and the other given a suspended sentence of two years.

Farming study for engineers

FIFTEEN industrial scholarships in agricultural engineering have been created by the Department of Industry at the National College of Agricultural Engineering for the 1978-79 academic year.

Suitably qualified engineers and managers will be able to undertake postgraduate training in preparation for entry to the agricultural engineering sector of manufacturing industry.

Mr. John Burge becomes appointed a principal executions and an industrial Relations.

Mr. John Burge becomes appointed a principal execution with J. AND A. SURINGFOL with J. AND A. SURINGFOL SANKEY GROUP from tomorrow stockbrokers, from to-morrow on the retirement of Mr. John Hazel, who remains on the Buard.

Mr. A. W. Houston bus has been supported by the support of the support

Dr. Ronn Mackie has been appointed to the chair of dermaappointed to the chair of derina-tology in the UNIVERSITY of GLASGOW. She will be the first woman to hold an established chair in the University and takes up the post on April I, succeed-ing the late Professor John A.

Mr. F. W. Hadfield has been appointed a vice-president of INGERSOLL-RAND INTER-Lord Churchill has been NATIONAL and continues as appointed a director of the chairman and managing director LOCAL AUTHORITIES MUTUAL of Ingersoll-Rand Company in the INVESTMENT TRUST from April U.K.

I in succession to Mr. J. R. Green.

Appleford.

Air Chief Marshai Sir David been appointed deputy chair been appointed deputy chair been appointed deputy chair chief. RAF Strike Command is promoted to the substantive rank of Air Chief Marshal. Sir David director of CATER RYDER has held the acting rank of Air Co. and Mr. D J. Coe, a director of CATER BRIGHTWEN and the rank is now confirmed.

Exchange with Chariton Seal

Dimmock.

The Secretary for the Environment has appointed Mr. John C.

Wingpenny to the NOISE ADVIsteen appointed a director of the appointed a director of the meant has appointed a director of the meant has appointed a director of the meant has executive director, research.

Mr. Terence Highlands has been appointed a director of the Month of the Board.

Wingpenny to the NOISE ADVIstor the Board.

Mr. Colin S. Lovell has joint the Board of SCHRODER L.

CROSSED TO SCHRODER L.

CROSSED TO SCHRODER L.

Muir-Simpson becomes company secretary to replace Mr. T. P. Mr. C. E. Horoval has joined the Board of ALFRED BLACK.

MORE GROUP as chairman succeeding Mr. David Blackmore, who remains a non-executive who remains a non-executive director. Mr. D. H. Beckingham, Mr. P. J. Dredge and Mr. J. W. Mr. Joseph G. Keinberger been appointed group gen-manager and manager and m

Mr. John Whitehorn is to join Noble, who will remain a director. In 1972 and became group p LILLY INDUSTRIES on April 11 Mr. Highlands is managing sonnel co-ordinator at the c as director of industry affairs. He director of Kestrel Marine, 2 of that year, Mr. Mollett was a viously a director at the Co recent of the CRI since 1966.

appointed chairman of ELLIOTT GROUP of PET BOROUGH from tomorrow the retirement of Mr. E. I. Smeeth. honorary president, Mr. Some remains a non-executive direcof the group's overseas diving

Mr. Clifford Tippett has be installed as president of INCORPORATED SOCIETY VALUERS AND AUCTIONEE He is chairman of Abbeys Property Co.

Air Marshal Sir Edward Child Mr. Neville Kirby has become chairman of the Health FOODS MANUFACTURERS ASSOCIATION, He is managing director of Appleford.

Air Marsnat Sir Edward Child who retured from the Hoard IBM UNITED KINGDIOM REMAINED HAVING SERVED ASSOCIATION, He is managing director of last 15 years.

The Secretary for Social Services, has appointed Miss A. G. appointed a deputy chairman finitely to be a member of the BRIDON and continues responded in the state of the BRIDON and continues responded in the state of the state

The Secretary for the Environment has appointed Mr. Peter Duniean as chairman of the NATIONAL BUILDING AGENCY until December 21 1000 He of Bristol-Myers Products Division in New York.

Bir. Mak Kearsey has b bir. P. T. W. Mollett has been A and O MARKETING SEVIC appointed to the Board of J. He was previously with LYONS AND CO. He joined Lyons. Alliance grocery group.

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-ADVERTISEMENT-DIRECTOR

THE BANK OF NOVA SCOTIA



Sir Denis Mountain, Bt.

At a recent meeting of the Board of Directors of The Bank of Nov. Scotia, Sir Denis Mountain, Rt of London, England, was elected a Director of the Bank. Sir Denis is Chairman and Managing Director. Eagle Star Insurance Company Limited and a Director of a number of other companies.

COMPANY NOTICES

JOHANNESBURG CONSOLIDATED INVESTMENT COMPANY. LIMITED GROUP

ANNUAL GENERAL MEETINGS OF GROUP COMPANIES AND CLOSING OF TRANSFER REGISTERS

1978, both days inclusives of mombers will be ele

Name of Company
(each incorporated in the Republic of South Africa)
Western Areas Gold Mining Co. Ltd.
Elaburg Gold Mining Co. Ltd.
The Randfoncelo Estates Gold Mining Company.
Wiewatersand. Limited
In respect of seah of

writeraters of each of these meetings, any member of the company concerned is entitled to appoint a proxy to attend and so speak and to vote in his stead. A proxy need not be a member of the company. proxy need not be a member of the company.

Holders of share warrands to bearer desirous of attending in person or by proxy or of voting at the meeting and at any adjournment thereof, are required to comply with the regulations of the company relating to share warrands. Copies of the regulations are available on application to the Johannesburg office of the company at the address given below or to the office of the London Secretarius, Barnaco Brootiers Limited, 99 Bishopsgate, London ECZM 3XE.

JOHANNESBURG CONSOLIDATED INVESTMENT COMPANY, LIMITED, Secretaries

Head Offices and Registered Offices: Consolidated Building, Corner of Fox and Harrison Streets, JOHANNESBURG, 2001

ENTE NAZIONALE PER L'ENERGIA ELETTRICA (ENEL)

· 71% 1971/86 ECU 60,000,000 Loan

30th March, 1978

Bonds for the amount of ECU 5.500,000 have been drawn on March 8, 1978 in the presence of a Notary Public for redesoption on May 1st, 1978. The drawn debentures are those NOT YET PREVIOUSLY REDEEMED 13,015 up to 21,589 incl.

They are redopmable, coupon due May 1st. 1979 and following attached as from May 1st. 1978, ECU 43,500,000

The Funcil Agent: KREDIETRAN Luxembourg. March 31, 1978.

BUSINESSES FOR SALE

LIGHT ENGINEERING BUSINESS mainly concerned with repetition mechaned described in Aston, Editorial Michael States and States a

CARAVAN CHALET PARKS MOLIDAY.
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The Management Page

EDITED BY CHRISTOPHER LORENZ

over the chairmanship of Imperial Chemical Industries, the U.K.'s largest industrial group, in troubled times. His predecessor, Sir Rowland Wright, who officially retires from the ICI Board to-morrow, has already virtually written off 1978. He does not see any major improvement in world market conditions for the next 12 months, and for an industry whose fortunes are suddenly becoming much more tightly tied to the general progress in world trade, that suggests serious problems ahead.

It is not a prospect unique to ICL Around the world the giant chemical multinational companies have been reporting falling profitability and stagnating sales. Hoechst AG, the West German parent concern of the world's biggest chemical company, saw profits fall 12.1 per cent. last year with sales down 2 per cent. Montedison, the earnings fall some 8 per cent.

geographical spread and diversi- to ICI's headquarters at Mili- So what is the path left for longed, a tactic already used by priority is clearly to improve fied productions. But by the are predicting a further drop this year, perhaps to the £430m.

ago by its second venture into growth in the world economy, purchased services,

ICI — seeking the right chemistry ICI ASSETS EMPLOYED (Elm)

ICI bucked the trend longer he was drafted from the petro- great need for this, but the downs for maintenance work £40m. a year, than most, thanks to its wide chemicals division on Teesside climate is not easy. bave been indefinitely pro- Maurice

perennially troubled Italian its liquidity has improved ducts can be substituted for ful running of plants. emphasis is rather on continuity, chemicals conglomerate, leads beyond recognition ICI to-day natural substances is now level. In the face of large surplus and certainly the importance is a different company from the ling off. The high penetration overcapacity, particularly in placed on improving technology makers with a deficit in 1977 one that in the mid-1960s was reached in fibres, for instance, base petrochemicals and to conserve feedstocks and of well over £300m. Even forced to stop construction of does not leave much room for plastics, companies are in energy is not new. From 1971 Dow Chemical of the U.S. some major plants in mid-future expansion. Price in-creasingly choosing to shut to 1977 the average amount of for many years fortune's stream because it was running creases for many products are down less economic plants in energy used by ICI plants in favourite child, saw its net short of cash.

no doubt justified, but "it one part of Europe, in order to the U.K. fell by 18 per cent. It is a lesson Maurice Hodgson would be unwise to rely on run others at full capacity. In By last year this effort was is unlikely to forget. In 1966 getting prices up. There is a other cases temporary shut representing a saving of some

can bridge the gap because of Growth in demand for some 58 per cent of the group's the best technology in every its enviably strong financial chemicals has turned down, sales income of £4.6bn. was area." position, enhanced two months partly because of general slow spent on raw materials and

end of 1977 its profits had been created post of general manager of going for greater shares of at Wilton. rather than when necessity viction that the main option to search and development efforts, is understandably fostered by where ICI has been trying to "If we are to keep up our demanded it, ICI has since go for is a dramatic reduction in which £150m. was invested investment programme to get to provided itself with a cushion in costs. He has set as priority last year, £46m. of this going tions; £150m. can be invested in cent, while going for an increase our strategic objectives we will against short-term falls in in his first months as chairman overseas. "But I have no inhibi- a mew ethylene plant and the of 30 per cent in production. Metal Industries. But company changed the company's outlook have to improve profitability." profitability." profitability. But as the new to improve efficiency, par-tions about buying technology number of ICI jobs created is In such a ruthless process, studies show it still lagging well Hodgson says, "The old distinction of ICI jobs created is In such a ruthless process, studies show it still lagging well Hodgson says, "The old distinction of ICI jobs created is In such a ruthless process, studies show it still lagging well Hodgson says, "The old distinction of ICI jobs created is In such a ruthless process, studies show it still lagging well Hodgson says, "The old distinction of ICI jobs created is In such a ruthless process, studies show it still lagging well Hodgson says," he states plainly. For the time chairman points out: "This ticularly in the use of energy outside," he says. "No company being he is confident that ICI cannot last indefinitely."

and raw materials. Last year of the size of ICI can develop

work. The new 120,000 tonnes a the U.S. debenture market to but also, says Hodgson, because Company studies show that year polypropylene plant that ICI is building at Rozenburg, Holland, is using a unique process developed by BASF, the West German chemical company. Compared with existing plants the new gas-phase process is said to represent capital cost savings of at least 20 per cent.

The philosophy is already at

ICI, which pioneered another major plastic, polyethylene, will, in the future, have to follow carefully the progress made by Union Carbide in this field. The U.S. company claims to have made a significant process advance, which will haive

Kevin Done looks at how ICI is coping with the world recession and the role of its new chairman

ICI's record of efficiently using capital costs and cut energy raw materials can already bear needs to a quarter of current comparison with many of its levels. Union Carbide has European competitors, such as announced plans for installing-BASF, Akzo, Hoechst and by 1982—430,000 tonnes of Montedison. But it is still fall-extra low density polyethylene ing some way behind the U.S. capacity using the new process. majors, Du Pont, Monsanto and ICI chairmen are in the habit Dow. Hand in hand with of pointing out that a change of reducing energy and feedstock personnel at the top rarely raise \$175m. In recent years the rate at which chemical pro- costs must come the more skill- ushers in a new era. The

close behind he is also conscious cut back by 10.5 per cent to —company planning. From here the West European and U.S. But Hodgson's approach is of the gap in labour production and most analysts he was instrumental in giving markets acquisitions are clearly more fundamental. In seeking to tivity that exists between ICI ICI its first effective system for a possibility. It certainly has gain an edge over competitors and its biggest rivals on the capital budgeting, and he is well the financial strength to make in both quality and efficiency he continent and in the U.S. mark. It has won back the aware of the disastrous conse- such a move, but the company's is pinning high hopes on imWages and salarles take about blue riband of being Britain's quences of relaxing the present new chairman is unwilling to proved technology providing an27 per cent. of sales income, a biggest exporter—£936m. last tight central control of new commit himself on this point other avenue towards reducing fact that belies the common take have disconnected from the vear—but that is small comfort projects. By raising money For the time being Hodgson costs. Clearly many advances belief that ICI operations are jobs have disappeared from the Interms to Maurice Hodgson as he looks when the opportunity arose, will only make clear his con-can come from ICI's own re- not labour intensive. The image loss-making fibres division, placed ICI

modern petrochemicals opera- reduce the workforce by 30 per minimal. But such a picture what place do ICI's social behind U.S. rivals, such as Dow, tion of looking at the manufacture. tends to omit highly labour obligations command, as the Du Pont, Hercules, and Monturing divisions as the U.K intensive activities such as the country's largest industrial com-santo. It compares more favour- and continental Western Europ packaging of pharmaceuticals at pany? Hodgson is unequivocal. ably with continental rivals, but as an export area, is becomin Macclesfield, the manufacture of "The detonators at Ardeer or of paint generally in manufacturing West German industry. It is a longer any territorial divisio at Slough

Freddie Mansfield

Maurice Hodgson: looking for a consensus

proved," says Hodgson, "but I decline. If we go for job prewish we could find a new word: servation the numbers in manupeople are fed up with hearing facturing will still decline, but Understandably it is a sensitive issue with the trade and whole factories will have to bank, to take over the newly- ICI? With its stated strategy ICI at one of its ethylene plants substantially on this record, but unions. They see a big capital close treated met of general managed at the control expenditure programme rolling forward-£491m. last year and £700m. this year-but the net result is a reduction in the numbers employed by ICI, down

U.K.) last year to 154,000 world-

we will become uncompetitive

"If we improve productivity, the numbers will still go down, but it will be in a way that generates more wealth and creates work in other sectors. 5,000 (4,000 of those in the

analysis made last year by the authoritative journal, Chemical Insight, ICI moved up to third place in the world chemicals league on a general rating of quality of performance. One of the factors taken into account was that it had the lowest wages bill of all the chemical majors, a ready-made bargaining point for unions under pressure to improve productivity.

The unions are also sensitive about another vitally important strand of ICI corporate strategy, its determination to become a major force in U.S. and continental European markets. ICI is convinced that such an aim can only be achieved by a far greater degree of local manufacture. Exporting from the U.K. is not enough. Hodgson is adamant that ICI's business outside the U.K. will grow faster than domestic sales. The U.K. represents 7 per cent. of the world chemical market, while the U.S. and Western Europe each account for about

This month the ICI main has sanctioned the second half of a £290m, parallel investment in chlorine and related products at Wilton, on Teesside and at Wilhelmshaver in northern Germany. The pro jects are closely related and are part of the company's strategy for consolidateng its manufac turing position in northern Europe around the North Sea basin.

It is a long-term act of faith Some 40,000 jobs in engineering in the European market. Las and construction are created by year ICI made a trading los the present capital expenditure on the continent of £3m. or sales of £730m., but with th In terms of sales per em- present investment programm ployee, ICI's productivity is it must look forward to at leas improving, and it was the early 1980s before it ca boosted by last year's sale of measure the strategy's success its 63 per cent stake in Imperial By then it will have drasticall numbers employed is behind the big three of the inappropriate. There is n industry are in decline. The delicate equation to balance. In with a Channel in between."

Hodgson chooses his new role

THE CHAIRMAN of ICI is not a chief executive, says Maurice Hodgson, who takes over the job to-morrow. "We haven't had one of those for a long time; the business is

"The chairman is the man who organises the work of the board and tries to achieve the consensus view on major issues. He must judge carefully when it has been reached, because consensus is t the same as unanimity.

Much of the skill lies in the delegation of the workload, not only of the chairman, but also of the entire board, to make the best use of the considerable management resources available in the com-

His predecessor, Sir Rowland Wright, a former personnel director, took the opportunity of the chairmanship to become personally acquainted with many of the more far-flung parts of the ICI empire, and became deeply involved in the debate sparked off by the Bullock Report on

industrial democracy. ICI's external and internal relations can easily swallow up the chairman's time, but Hodgson is determined to find the hours to remain directly involved in the running of the business. His expertise in recent years has been developed in the fields of investment and finance and he is too closely engaged to give

them up completely. With a capital expenditure programme of £700m, this year and more in 1979, the importance of the ground-rules established by the new chairman in b ming role can be easily appre-ciated. His intimals know-ledge of this vital area of group affairs brings a unique experience to the top of the

He plays down, however, the degree of influence that a chairman can bring to bear. "Corporate strategy operates over a longer time-span than the stay of one chairman. The investment programme has to look over a five-year period. It is not written in tablets of stone, but it does not change radically over that period."

In contrast to this picture of apparent cautions development the legend is also growing that ICI has appointed a gambler as its latest chairman.

Hodgson's private life it is true to a degree, but it hardly reflects fully the increasingly dominant role he has played in ICI's affairs over the last

His public ambition might be to make ICI a greater force n the continent and in the U.S., and to make it more productive and efficient, but his private goal is to own a rse. Unlike the doubts that can surround corporate objectives, this aim at least could well be achieved by

He enjoys racing as a social ene and it is a fertile source anecdotes for the growing number of functions that come with the job of chairman of ICL And it is to metaphors of the gambler that he turns to describe the extraordinary trials he has undergone to save his eyesight-ordeals which he describes with a self-effacing humour which belies his courage and determination.

From the age of about 40 his eyesight began to deteriorate, and it became obvious that he would have to indergo a corneal graft on both eyes. In his own words. the first one was a disaster. I then had to play double or quits with the second eye." It was successful, but the operation revealed that there was also a cataract. The gamble had to be faced up to again and repeated. Mercifully the gamble paid off.

To cope with the years when he was unable to read, in the conventional sense, Hodgson assembled an array of aids, which pay tribute to both his imagination and determination. One of these recorded for him, but because listening to tapes was too time-consuming a process, he trained himself to listen to the tapes at 21 times the normal speed. He used an electronic device to un-scramble the tapes and stop them sounding like Donald

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OTHER INTERNATIONAL OFFICES

MID-WALES

Opening up the Spanish market

BY ROBERT GRAHAM

THE ADMISSION of foreign task the tendency is to delay as

First test

Yet the question of how and that the international banks when Spain will choose to open would like to see which, as

years back. Some 60 foreign exists from outside. Four foreign banks have submitted applications are operating and several tions and a good proportion have others have minority interests. already established representa- More importantly the foreign tives offices to prepare the banks predominate in a key area

The Spanish bankers are a recounting for over 70 per cent.

powerful lobby and rom the They are also servicing multistart the government has national clients where possible.

preferred to duck the issue. The least understood principle leaving the formulation of pro- until very recently in the whole posals to them. This has resulted issue of forcign banks has been

training, has been one of fear—acceptance by the Soaniards of a a fear that the sophisticated tech-quid pro quo. This is a point niques of the large multi-the German banks have made national banks will synhon off a strongly. There must be a limit Incrative slice of business. Put to the activities of Spanish banks less politely the Spanish banking abroad if they continue to be community has been the most restrictive at home. By the casseted and best protected in same token apologists of foreign Europe, and quite naturally most banks in Spain have pointed out Europe, and duite naturally most oalks in Spain have pointed out will be disappointed with to-have resented the idea that that if Spanish banks can prosper day's four-runner turn-out for namping skill which will be seen comfortable under the table abroad without disturbing local Aintree's £5,000 Gillette Trophy to great advantage over these same and old-boy agreements interests (which they have done). Should be brushed aside in a free then the same should apply to Two or three years back the At today's other meeting. Tes-

banks to the Spanish banking long as possible.

system is not a topic which arouses much public interest. bankers sought to soften the arouses much public interest. Nor, one suspects, does it greatly trouble the sleep of the Prime Minister and his cabinet. Lip service has been paid to the principle of admitting the the the likely contenders foreign banks for almost a vear foreign banks for almost a vear inow but clearly the Government feels it has more urgent things to worry about. The ment feels it has more urgent things to worry about. The ment feels it has more urgent mised by the New Year and now it is unlikely before the summer and the cycles are now it is unlikely before the summer and the cycles are now about of the reduced to a problem and actually reduced some remarkable successes. The founding of the board was necessary legislation l summer and the cynics are looking ahead to the year end
before any concrete measures
are taken.

Toneo quantum appartument has an arbiter

toneo quantum appartument heartland.

Much of the region known as it or not, the government has are substantially

of husiness - foreign loans -

thus found itself as an arbiter between the protectionist demands of its own banking community and the conditions that the international banks the conditions that the international banks the conditions that gone up by over 40 per cent. the doors of its banking system important creditors, are not since then. The drift of the to foreign competition is not a without clout. This dilemma is younger and often the more able negligable one. It is the first test the main cause of the delay. younger and often the more able meagre resources, had been

report on the problem in the economic development and im- square feet, at rents varying seems to have been an import-commissioned into the possibility aroused by the board in its first early 1960s pointed out that proving the social infrastructure from 60p to 70p a square foot, and ingredient in its success. If ties for marine and fresh water year of effort, perhaps he is depopulation in mid-Wales was of the Mid-Wales region. But All have room alongside for Dr. Iain Skewis, the Scottish fish farming, the restoration of right.

THE DEVELOPMENT Board causing growing economic costs oddity or not, the 30 board expansion. The Board usually for Rural Wales (DBRW) arising from the need to main-members drawn from all walks can offer a two-year rent free



MID-WALES

Jobs—but not just for the boys

BY ROBIN REEVES, Welsh Correspondent

opened its doors for business amenities for fewer and fewer small executive staff have stretching up to five years exactly a year ago. At the time people.

In creating the DBRW, the regenerating the area and its facilitating the development creation overlapping in many Government chose to pull to-many small communities of new enterprises by building ways the work of the recently gether the efforts of a variety with tremendous enthusiasm. In

try which can have accommoda- chief executive, has a complaint quality. hefore the Board come into tion immediately available for it is against the Board's in- The board recently set limit being averaging only five a year. Inquiries from interested manukey personnel. facturers, tempted by the Board's aggressive marketing

campaign, are coming into its result that the Board is having leisure, and cultural facilities development career. to think of rapidly building which might otherwise not have Few indigenous businesses tially a matter of getting stu-

weish language and culture. of a hybrid statutory board with community.

Cultural and social damage a budget of £6m. a year, The Board's advance factories "one stop shopping" service to develop Mid-Wales's own native thring of the problems of under apart, a government sponsored charged with promoting the range from 1,500 to 50,000 interested manufacturers which resources. Studies have been living, the language and culture.

One stop shopping service to develop Mid-Wales's own native thring of the problems of under the great interests and the problem in the economic development and im- square feet, at rents varying special point of trying to give a very conscious of the need to attractions to a generation on the problem in the economic development and im- square feet, at rents varying special point of trying to give a very conscious of the need to attractions to a generation of the problems of the

an effective fishing industry in Cardigan Bay, and into the use of local pear and state.

The opportunities for smire ing industries connected with agriculture and forestry, such 4s found packing and making timber by products, are since being examined. A survey of the Mid-Wales souvenir industry discovered a market warthfrm. a year, much of which was filled by crafts and trinkets produced elsewhere. The heard his. set itself the task of both winning back the hog's share of this literative gifts market by encoursuing producers, and of promoting the export of Made in Wales souvenirs of good

ability to give a man with a a turnet of creating 8,000 new The Board's ability to make bright idea but no track record jobs in the region during the grants to improve social infra- an unsecured loan or grant just next five years. Success will structure is also a support for to get going. This is a power the industrial effort. A total of enjoyed by the Highlands and partly depend on the overall the first year towards sports. Success will be first year towards sports. the first year towards sports, where he began his industrial Skewis takes a refreshing to removing its traditional restrictive and isolationist approach to the inferrintional financial and business community.

The foreirn bankers have community.

The foreirn bankers have competition is the life-blood of infinity and infinity and a speed representation of the series of the second to the inferrintional financial and the second to the inferrintional financial and surface with expanding New later the fact is that a factory employing only a couple of force is of course, at ion, which was essentially the inferrintional financial and surface with the fact is that a factory employing only a couple in

RACING

BY DOMINIC WIGAN

leaving the formulation of proposals to them. This has resulted issue of forcign banks has been in an ostrich-like approach to what would seem the inevitable. Have been to expand overseas, Majority reaction among bankers, highly conservative by bankers, highly conservative by York, there has been very little acceptance by the Spaniards of a constraining, has been one of fear—acceptance by the Spaniards of a constraining and found horse racing a clear-cut victory in the Rosegraph and foun

that view.

son of that sire. Derring-Do has
In a tricky two-mile event confined to five-year-olds and upGuineas winner in High Top, and wards which had not won a another of his progeny. Hunter-chase before January 1, 1977, combe, might have won if the the Irish pair Mac's Chariot and ground had been up fast. Rathgorman seem likely to prove AINTREE superior to Another Dolly and

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"ACE. Credit Caros, 01,437 6834, Man.-Thurs. 8.0, Fri., Sat. 8.0 and 8.40 JESUS CHRIST SUPERSYAR

PHOENIX. 01-835 8611. ADRII TIM BROOKE-TAYLOR GRAEME GARDEN THE UNVARNISHED TRUTH A New Comedy by Royce Ryton PICCADILLY. 437 4506. Credit card bkgs. 836 1071-2 Irom 9 a.m.-6 a.m. Ergs. 8. 5als. 4.45 and 8.15. Wed Mat. 3.00. Sals. 4.45 and 8.15. Wed Mat. 3.00. Sept. 4.45 and 8.15. Wed Mat. 3.00. Sept. 6.15. Standard Award and SWET Award For Standard Award and SWET Award For PRIVATES ON PARADE (Not Suitable for Childron) HUGELY ENTERTAINING EXTRAVAGANZA." S. Times.

PRINCE EDWARD CC | Formerly Casino 01-437 6877. Previous from June 12. Opening June 21. EVITA. PRINCE OF WALES, CC 01-930 8681. Monday to Friday at 8 p.m.
Sat. 5.30 and 8.45 Mar. Thur. 3.00.
HILARIOUS COMEDY MUSICAL."

1 LOYE M. WIFE
Starring to April 8)
RICHARD BECKINSALE

ROBIN ASKWITH QUEEN'S THEATRE. CC. 01-734 1166.
Evenings 8.0. Sat. 5.0 and 8.30.
ALEC GUINNESS
SEST ACTOR OF THE YEAR
Variety Club of GB Award
THE GLB COUNTY
A Now Play by ALAN BENNETT
Directed by CLIFFORD WILLIAMS
BEST PLAY OF THE YEAR
Play and Players London critics award.

RAYMOND REYUEBAR, CC. 01-734 1593.
At 7 gm., 9 gm. 11 gm. 10gen Suns.
PAUL RAYMOND presents
THE FESTIVAL OF
EROTICA
Fully Air Conditioned. You may
orink and smoke in the auditorium.

ROUND HOUSE, 267 2564, Evgs. 8.00, MAUSER ORKATER MAUSER ORKATER

Present the London premiers of

THE HUNCH

DOWNSTAIRS DOOMS 4 Apr. at 7. Subcres. 8. Amorican Repertory Company in

RAINDANCE

by Meir Z. Ribslow.

ROYAL COURT Theatre, Tel. 01-730 1745.

Signs notes and squeaks with
BERISOVA, GISLGUD, KELLY,
LOUTHER AND SLEEP
Evenings 8 p.m. Mais. Thur. & Sai, 3.00.
Until April 1.

ROYAL COURT. 730 1745. From April 4
Lvgs. 8 00. Sat. 5.00 and 8.30.
CLASS ENEMY
Dr. Nigel Williams
Stunding new play." F. Times.
Stunding new play." F. Times.
See also Theatre Upstairs

ROYALTY. Credit Cards 01-405 8004
Mcndar Thurson's Evenings 8.00 Finday
5.30 and 8.45 Saturdays 3.0 and 8.0. London's Critics vote
BULLY DANIELS
BULLY DANIELS
BURLING BROWN TUGAR
Best Musical of 1977
Bookings accepted Major Credit Cards.
SMAFTESBURY.
Evps. at 8.00. Mats. Thurs 5at 3.00.
John Reardon and Jean Diefer in
The Improvementary invalidation
A MASH HIT. THIS MUSICAL MAS
EVERYTHING. 5.M.

Mac's Chariot for Gillette

will be disappointed with to- Chariot to come through on

TRIDAY MARCH 31, 1977
† Indicates programme in black and white.

BBC 1

6.40 a.m. Open University.
For Schools, Colleges.
Sp.
To Schools, Colleges. 7.05 Indoors
7.30 Newsday.
8.10 Heads and Tales.
8.25 The Money Programme:
Going for a Burton? The

England—5.55-5.20 p.m. Look North East (Norwich): Look North East (North East F.T. CROSSWORD PUZZLE No. 3,630 To the

Overdue blockhead in high

pirits (7) out out by a graduate before 5 Charts brought to book by Jark during sentence takes are of two thousand with

drink that gets money 8 Leather that suits family (7)

PORDER

9.35 a.m. Balas and Ban'helor Captorn
9.65 The Clue Club. Bal5 Breaktime.
9.35 a.m. Salas and Ban'helor Captorn
9.65 The Clue Club. Bal5 Breaktime.
9.35 a.m. Salas "Marathon." 10.15
10.40 The Electric Theatre Show. 11.05 "King Nong vs. Codeilla." 11.30 Winning
1 The Romer Whitzker Show. 11.35 West. With Wikie. 1.21 p.m. Southern News
12.30 a.m. The Nature of Thines 1.30 Indoor Learne. 2.00 Women Culls
11.30 Randon Years. 1.55 Reitz Rome 2.25 Friday Matines: "The Lone Rangor
Carroon. 12.90 Matiners: "My Six Convirs." 3.39 Brit's Lot. 5.15 The PracLot. 5.15 Weekend. 5.20 Crossroads. 6.00
11.70 Sarvival Special. 10.30 and 60. 600 Seene South East (Channels
Springsport. 11.06 Late Night Frim: 10.43, 64 and 66 only. 4.30 Out of Town.
"Five Card Stud." starring Dean Martin 7.00 Oh No! It's Selven Frozgitt. 8.00
and Robert Mitchium. 12.40 a.m. Border
News Sunimary.

CHANNEL

TYNE TEES

TYNE TEES

COLISCUM. Credit cards 01-240 5258
Reservations 01-838 3161.
Tonight & Tues. 7-00 Force of Destired
Tomor. & Thurs. 7.30 bon Glovanni:
Wed. 7.00 Juliesta. 104 balcony seats
always available day of performance.

COVENT GARDEN. CC. 240 1065.
(Gardencharg: tredit cards 835 6903)
COVENT GARDEN PROMS
LUMII April 1)
703 Stalls Promenade Places available
1 hour before curtain up £1.
THE ROYAL OPERA
THE ROYAL OPERA
Venice. Mon. 7.30 p.m. Death in
Venice. Mon. 7.30 p.m. Il Trovetore.
THE ROYAL EALLET
Tomor, 7.30 p.m. Manon. Tues. &
Thur. 7.30 p.m. Manon. Tues. &
of the Earth.

SADLER'S WELLS THEATRE. Rosebery Ave. E.C.1 837 1672. Last 2 ports. PILOBOLUS Dance Theatre "a Hit... It's irresistable." Gdn. Evgs. 7.30. Tonight Clona-Los in Faunal walksyscomi Shazy (Untit ed. Torner.; Monishood's Farewel Tairuane Occilus Unitied.

ADELPHI THEATRE CC. 01-836 7611.
EV9S. 7.30. Mats Thurs. 3.0. Set 4.0.
IFENE
THE BEST MUSICAL
of 1976. 1977 and 1978!
"LONDON'S BEST NIGHT QUT."
SUNGRY PEODIE.
ALREADY SEN 8Y NEARLY ONE
MILLION HAPPY THEATREGOERS.
CREDIT CARD BOOKINGS 856 7611.

ALBERY. 836 3678. Party Rates. Credit card bitgs. 835 1071-2 from 9 a.m., 6 g.m. Mon., Tues.. Wed. and Fri. 7.45 p.m., Thurs. and 5st. 4.30 and 6. A THOUSAND TIMES WELCOME IS LIDNEL BARTS.
MIRACULOUS MUSICAL.. Fin. Rimes. With ROY HUDU 2nd JOAN TURNER, WITH ROY HUDU 2nd JOAN TURNER, "CONSIDER YOUNGELF LUCKY TO BE ABLE TO SEE IT AGAIN." Daily Mirror.

APOLLO. 01.437 2563. Feelings 8.00.
Mats. Thurs. 3.00. Set. 5.00 and 8.00.
DONALD SINDEN
(Actor of the Year, E. Std.)
"IS SUPERS." N. OW.
SHUT YOUR EYES AND
THINK OF ENGLAND
"WICKEDLY FUNNY." Times.

CRITERION. CC. 01-930 3216. Erenings 8. Sars. 5.30. 8.30. Thurs. 3.0. LESLIE PHILLIPS impeccable in a matter." Sun. Times in SEXTET "HILARIOUSLY FURNY." N. of World DRURY LANE. CC. 01-836 8108, Every Night 8.00. Mannee Wed. and Sat. 3.00 A CNORUS LINE "A rare. devastating. Joyous astonishing stunger." Sunday Times. DUCHESS. 535 8243. Mon. to Thurs
Eygs. 8.00. Fn. Sat. 6.95 and 9.00
ON I CALCUTTA!
"The Nuglty is stuming." Daily. Tel.
8th SENSATIONAL YEAR.

FORTUNE 836 2238 EVGS. 8. Thurs. 1.
581 5.00 and 8.00.
Muriel Paviow 35 MRS, MARPLE in
MURDER AT THE VICARAGE
Third Great Year

GLOBE, D1-437 1592. Evgs. 8.0. Mats.
Wednesday and Saturday 3.00.
BARKY FOSTER. CLIVE FRANCIS
DONALD GEE JEREMY IRONS and
SIMON WARD IN SIMON GRAY'S Play
THE REAR COLUMN
"Brilliant." Time Out. "An important
Play "D Exp. "A hine play." Times
Dr by MAROLD PINTER. LASS Week.

HAYMARKET. 01.910 9832 Eves 8.00.
Mat. Weds 7.30 Sats 4.30 and 8.00
Mat. Weds 7.30 Sats 4.30 and 8.00
Mendy Hiller
DEREK DORIS
GODFREY HARE CUKA ingra WATERS OF THE MOON

Ingra Bergman makes the plage
reduce—unassallable cnarrams Div.
Mail, "Wendy Miller 15 superre. Superre."

THEATRES THEATRES SAVOY OF BOO MAL WES 2.50.
PATRICK CARGILL & TONY ANNER?

SLEUYN The World-landed Thrive by Anthony Shaffer
Seeing the play again 1: 7 fact an liter and foral for Franch
It will ron and run again aga See
Evenings L1 to L4 haza L: to \$1.

SHAW THEATRE, 03-18A 1394.
CHICKEN SOUP WITH BARLIT
FOR DRICE PRETE, Entropic and in-Tratrold
7.30, Open Mon. 7.80. AT STATE \$1. STRAND. 01-056 2560. Evening 8.08.
MAI THUR. 3.00. Sets. 5.50 and 6.30.
NO. SET FLERET.
WE'VE BRITISH
THE WORLD'S GREATEST
LAUGHTER MARER

ST. MARTIN'S. CC. AM 1441 Eys B36. Mat. Tort. 2.45. Sat. and Fn. 3 and B. AGATHA CHRISTIES THE MOUSETRAP WORLD'S LONGLESTEVER RUN 26th TEAR.

TALK OF THE TOWN, CC. 754 3051. 8.00. Dining. Dencing. 9.30 Super Revne, AAZLE DAZLE JAJ St 11 cm. MADELETHE BELL THEATRE UPSTAIRS.
Evenings 7.30
CLASS ENEMY
By Niger Williams 730 2554.

VALIDEVILLE. 836 9988 CC. Eves at B.
Mel. Tuev 2-45. Sero. 7 and 8.
Dinad SMERIDAN. Dutice GRAV.
Eleanor SUMMFRIFED Jordes GROUT
A MURDER 15 ANNOUNCED
THE NEWEST WHODUNNIT HIT
BY AGATHA CHRISTIE
"Re-enter Agatha Christe 15 stok.on
dunalt nr. Agatha Christe 15 stok.on
the West End vet again with Another
of her hermaniv "gen.ons murgar
mysterious" fells Berker Even.on North

THE ELOCUTION OF E.N. IN THE PRESENT THE STATE OF THE STA

WHITEMALL 01-930 Engl-7764
Evgs 8:30. Fri and Sat 4-45 and 9:00
Pout Raymond presents for Semantional
Sex Number of the Le tury
Due to pre-wheiming rubble demand
season extenced.

Due to rearwheiming rubit. demand season entented.

WINDMILL THEATRE TWICE NIGHT SO, and 'C.O.O. There is no provided the season of the season

YOUNG VIC mean Did Vit 928 6563.
Ton't 7.45 TWELFTN NIGHT, Non-booking for Royal Shakershere Com-pany's award-wurning MACRETH opening April 4. All Seats E2.00 (heavily booking until May 15)

CINEMAS

ABC 1 & 2 SMATTESBURY AVE. 836
8861. Sec. Pert. ALL SEATS BKRLE.
1: THE 12 TASKS OF ASTRIK (U. WK. & SM. 230 5.30, 8.30, 2. THE GOODSPE GIRL (A). WK. and SMR. 2.00. S.10. 8.10 CAMDEN PLAZA 'OB Camden Town Tubel. 485 2443 THE DEVIL PROBABLY (X) 4.45. 5.50. 9.00 Must and April 5th.

LEICESTER SOUARE THEATRE (930 5292)
OLIVER REED, SUSAN CEORGE and
many other stors. TOMORROW NEVER
COMES (X), Sep. Brogs, Mon-Set, 1.35,
4.30, 8.10, Sun 3.45, 7.43, Late time.
Fri. & Sat, 11.45, Seats bable, for 8.10
pross. Mon.-Fri. and all props. Set. and
Sun, Except late shows. ODEON, Haymarket. (930 2738-2771.)
Jame Fonds. Vanessa Reductors in a fred
Zinnemson Sim Julia (A). San, prost.
Oliv 2 30. 5,45, 8,46, Frather Div.
2 45, 6,00, 9,00, Late show fr. 8,54t,
Frask Comm. 1143 p.m. teature 12,00.
All teats bookebic.

ODEON. Levester Square. (930 6111)
CLOSE PACCUNITERS OF THE THIRD
KIND (A) Sep prop. Div. Does
Open (10.00 not Sun I. 105. 4.15, 7.4
Late perts. Turs -5ab Doors open 11.13
of All seat may be booked except
10.00 a.m. prop. ODERN: Marble Arch. 723 2011.2. SYAR WARS (U.). Doors geen dig 1.30, 4.13, 7.50. Late show Fr. & Sqt. 12.00 pril-night. All sedds balike, except 1.30 perf. wts.

PRINCE CHARLES, Left Sn 437 8181.
Sep. Peris. Div. sinc Snn 2 20 5.38.
B 40 Life Show Fri. G Sat. 11,55. Seats
Bible, Lick Bar. SCENE 2. Lektsir Sapara (Wardow St.)
410 4470 THE PINK PANYISER
STRIKES AGAIN (II) Sun-Inst. 1.30
5.25 9.25 P) 4.51 12.40 4.63 A.65
12.40 THE RETURN OF THE PINK
PANYING (II) Sun-Inst. 1.25, 7.25.
Fr. 5.52 2.15 6.40 10.40

FTUDIO 1 2. 3. 4. OHOR CITCUS.
477 1970
LONDON'S NEW BOIR-SCREIN SCENE
T. ANOTHER MAN. AMOTHER WOMAN
AAI. Props 25. 3. 3. 3. 2. 10. Left
MON MORNING EAMILY SHOWS.
MON. 521. CONT. 10. 40 MILE SHOWS.
MON. 521. CONT. 10. 40 MILE SHOWS.
MON. 521. CONT. 10. 40 MILE SHOWS.
15 TO 11. 50 1CP 110. AD STREET \$1.00
7 YHE GOODNYE GARL (A). Front.
10. 45 1455. 3.25 8 03. Left EROW SAT.

مكراهل اللحي

Financial Times Friday March 31 1978

Lark Rise

by B. A. YOUNG

In Lark Rise, Keith Dewhurst has assembled a golden treasury of detail from the first book of of detail from the arst book of Flora Thompson's beautiful trilogy and assembled his material in chronological order to outline the events of a day. True, the sensons tend to fluctuate as the day goes by, but this is as it should be, for the object is to present a complete picture of life at the little North Oxfordshire hamlet we are moving in. "We," because we are all

audience and players, involved together on the stage. The floor of the Cottesloe has been cleared; there is a cornfield at one end and the inside of the Timms' cottage at the other, and the cottage at the other, and the action is set at or between these two ends. Jerry Parish's carfload of fish and fruit may suddenly nudge you in the back; or Laura (Flora Thompson's alter ego) chase her brother Edmund beltarskelter brother Edmund helter-skelter through the crowd; or a space clear for a line of reapers cutting the corn with a military drill of their scythes, the time kept by a singer on the flank, or for a bunch of villagers playing a country game in which they will involve some of the

There are, alas, grave disadvantages in such a scheme. On Wednesday, when the audience were fresh they hurried across the floor to assemble at the site for each new scene, forming an opaque barrier for those at the back; when they were tired—and they have to stand, without an

You cannot beat the real thing and the real Mick Jagger was such a spectacular example of strutting aggression and arrogant bravado that however close a

the raw urgency of his voice he would need to be a brilliant and

very athletic mimic to copy the

Louis Selwyn makes a brave attempt in the latest attempt by theatre impresarios to cash in on a known group of fans left stranded by their idols, but too often his simulation falls over

Let the Good Stones Roll was

originally produced at the Edin-burgh Fringe Festival in 1977

and the atmosphere of makeshift has lived on. Somewhere there is a core of sincerity trying to

meandering that it is difficult to

tell when the tongue is meant to be in the cheek and when it is

As a rock revue it is saved by

the hit songs of the Stones but

the whole show lacks drive and momentum, becoming disjointed and sketchy. The comedy relief,

which has little or mainly

nothing to do with the developing career of the group, is welcome but also serves to show up more

starkly the very thin story line

contrived by author Rayner

He conceptrates on the group's drug problems and their part in

the death of Brian Jones, capably

played by David Gretton who comes over even better as an American stand-up comic in a

scene which continues to be funny even though it is also

meant to ridicule the criticisms of the older "generation."

Brian Jones in scraphic robes

falls down badly.

Radio City

But the attempt to bring back

licity machines have run out of with superlatives, but as the play players.

Burton.

break through but the script so trate and the metaphysical so

stage delivery.

the edge into parody.

Ambassadors



Let the Good Stones Roll

by STUART ALEXANDER

film is based took place 40 years and opaque barrier for those at the back; when they were tired—and they have to stand, without an interval, for more than two hours—they sat down on the floor like those were young people at the structed from Mrs. Thompson, wil, Major Sharman the reluct. Proms. (Where are the thews of yesteryear?) I can see what willess there are in it for the directors. Bill Bryden and Sebastian Graham-Jones; but there is ground to be cleared yet.

All the same, the calm and contented atmosphere of the bonk is genuincely achieved, at any rate for those that have the good by Caroline Embling. her common knack of making foll for tune to know the books. It is mother by Mary Killer. her mothers whose excessively in the memory of its oldest in-farm bailiff with -Mis cry of habitants, to make any more "Hi, men!", old power to go to the promeanded the back in a spending of the back whose commonland had been enclosed by landfords with a farm bailiff with -Mis cry of those without the staying-in the memory of its oldest in-farm bailiff with -Mis cry of for those without the staying-in the memory of its oldest in-farm bailiff with -Mis cry of those without the staying-in the sade and to which (with babitants, to make any more "Hi, men!", old power to go to the promeanded the back in a powerful as powerful as

Cinema

Emotional Truths

considerably more denginum, mind and go and see it.

than eating or drinking—and mind and go and see it.

shown it locked in passionate and tragic condict with the new obscure Object of Desire is puritanism of the 20th century, another dossier from the files of the true incident on which the large 40 years in historical veracity film is based took place 40 years whatever in historical veracity ago; when the shadows of war, but with an emotional truth just

the relationship are clear from a broken love affair. He tells the beginning and the girl the story of the latter (in flash-(whose name, not un-back) to a group of sympathetic suggestively, is Sada) constantly fellow-travellers on the train. The



Eiko Matsuda in " Ai No Corrida '

Festival Hall

Messiaen by dominic gill

Integrens one man with punishment if or when he should ever return to the wife he has left, and if or when he should ever stray in his affections for her.

The film is a sequence of love scenes presented so frontally and explicitly that the possibilities for titillation quickly exhaust themselves and the audience starts to look at the film simply as a film: as a raw, powerful and very Japanese study in emotion-as-ritual. At No Corrido ment of contact between the two he way the man and the girl alter nately tease, caress and gore each other; and in the way that the moment of supreme passion and contact between the two her contact between the two her cannot contact between the wone to feath. The leavener of cannot contact between the two her cannot contact between the two films the contact between the two her cannot contact between the two her ca On Wednesday night the BBC life, spanning nearly half a cen-the very capable, rather straight-Symphony Orchestra under Serge tury. nately tease, caress and gore sale was only "testing" his love). The man "who made the avail's the Poèmes pour Mi for soprano the moment of supreme passion and contact between the two becomes also the moment of death. This story-within-a-story of an torn the language of sexuality in-old man's infatuation is given an and well-played; an orchestral true, which Messiaen lovers so time for tragedy to interevene. This story-within-a-story of an torn it was effective, well-planned to the world's the Poèmes pour Mi for soprano and orchestra of 1936, that extra-ordinary essay in religioso sentime for tragedy to interevene. This story-within-a-story of an tion it was effective, well-planned trues, which Messiaen lovers so and even in the open air are the world's the Poèmes pour Mi for soprano and orchestra of 1936, that extra-ordinary essay in religioso sentime for tragedy to interevene. This story-within-a-story of an tion it was effective, well-planned trues, which Messiaen lovers so and well-played; an orchestral trues, which Messiaen lovers so and will-played; an orchestral trues, which Messiaen lovers so on high mountains" of the familiar surrount and orchestra of 1936, that extra-ordinary essay in religioso sentime for tragedy to interevene. The language of sexuality in-old man's infatuation is given an and well-played; an orchestral trues, which Messiaen lovers so and will-played; an orchestral trues, which Messiaen lovers so on high mountains of the familiar surrount.

UNION CORPORATION LI

With the depressed South African economy showing

industrial interests did well to earn improved profits

which more than compensated for falls in dividends

few signs of an upturn during 1977, the group

received from our mining investments. In the

circumstances the consolidated net profit of

R33.3 million (55 cents per share) for 1976.

GOLD AND URANIUM

high increases in certain key costs.

R37.7 million (62 cents per share) represents a

satisfactory outcome when compared with that of

In spite of the restriction of pay increases to 5-6 per

mainly to the influx of largely untrained black labour,

coupled with high labour turnover, the introduction

of the eleven-shift fortnight and disproportionately

demand and sales of coins exceeded the supply of

The speculative and investment buying associated

brought a degree of instability into the market and

we are sufficiently encouraged with the results

obtained to be in the final stages of evaluating a

potential uranium/gold mine in the Orange Free

made to bring the project into production a very

substantial cash investment will be required.

After a prolonged and costly exploration programme

State, south of St. Helena Gold Mines. If a decision is

with the weakness of the dollar has however

some reaction may occur later in the year.

The gold market continues to strengthen. Fabrication

newly mined metal for the second year in succession.

cent, working costs continued to rise at almost

double the rate of the consumer price index, due

(Incorporated in the Republic of South Africa)

The Chairman, Mr. E. Pavitt, reports to shareholders

Chichester Cathedral **Festivities**

Local authorities which did not do enough to support arts fes-tivals were criticised yesterday by Mr. Kenneth Robinson, chairman of the Arts Council. "So many local authorities

Mr. Robinson was speaking at Press reception to launch the Chichester 903 Festivities which

dral from July 8 to July 22. higher than that of any other major arts festival in England, with one exception.

opening concert in which the trumpeters of the Royal Military School of Music, Kneller Hall show, they may at least console superiatives, but as the play players, itself says so forcibly, the Stones No doubt some of the faithful themselves by rushing home to never wanted to be legends or will make the pilgrimage to this the record player and a renderanything other than a good rock little theatre off St. Martin's ing of the real thing. appear with the Royal Philhar monic Orchestra under Sir Charles Groves, in two fully-staged performances of Britten's Noves Fludde and in performance of Beethoven's "Choral" Symphony with the Monteverdi Choir and Orchestra conducted by John Eliot

Other highlights include the

PLATINUM For most of 1977, platinum was traded below producer

price and only towards the end of the year were there signs of a revival. maintain its planned ozs. of platinum a year.

Impala Platinum was able to production rate of 700,000

INDUSTRIAL .

Our industrial interests are predominantly in the paper, packaging and engineering fields where market conditions were uniformly depressed and opportunities for increasing turnover or raising prices were limited. Improved profits were therefore possible only as a result of rationalisation, containing costs and improving efficiency and productivity. In these circumstances, it is a credit to all the group's industrial interests that earnings overall were up 13 per cent, on 1976 figures. Prospects for 1978 must be seen against the

continuation of poor economic conditions and a number of major uncertainties. Despite this. I believe that the strong enterprising management teams heading our industrial subsidiaries will make the most of opportunities and will take full advantage of any improvement in the South African economy.

OUTLOOK

Loan financing plays a major role in the three new mining ventures with which we are currently involved and in respect of two of these we have had to provide substantial guarantees. This is becoming a standard pattern in modern mining finance and until there is some general revival in the world demand for metals and minerals, the existence of such commitments inhibits further new projects or the expansion of existing ones. South Africa's abundance of natural resources and

possession of technical and entre-preneurial skills, enable us to make the economic progress needed to continue to improve the standards of the whole population.

To make the most of its opportunities, given the special problems of its diversity of races and cultures.

South Africa will require a considerable degree of courage and imagination; also the understanding and enlightened self-interest of the world business community.

Income after taxation:33.3 37.7 21.6 23.2 Dividends 413.3 481.7 **Net Assets**

.197,6

Rands Million

1977

leave the greater part of the financing to the energies of the organiser in raising money from business sponsors, generous in-dividuals and the Arts Council,"

will centre on Chichester Cathe The Chichester Festivities began in 1975 to mark the 900th anniversary of the Cathedral, and the perecentage of income achieved through the box office in the last three years is

Mr. Richard Gregson-Williams, the festival director, is keen to exploit the acoustics of the while the rest of the group band, and the only star among Lane. And even if they are discated and envisages the performs a dream-sequence ballet them was Jagger.

Living legends have become culture produces a dialogue on ambassadoria) setting too inconcated in the licity machines have run out of with embarrassed football show, they may at least console opening concert in which the cathedral, and envisages the

Gardiner.

BP sponsor music

who at least keep the lights cert Orchestra, and six soloists burning and the amps blaring, in the leading parts.

Leon Russell by FRANK LIPSIUS

London. Even the young crowds two people on stage shouting an elegance that enhanced their act with respect in the impressive setting designed in the early especially on songs like "Song Now, rock music just looks a sourise motif, carried out as a series of arches emanating from the 50-foot high prosecular out and architecture."

Now, rock music just looks a little tackier by the company it is the sourise of arches emanating from the 50-foot high prosecular carried two people on stage shouting an elegance that enhanced their image. Now, rock music just looks a little tackier by the company it is the sourise of arches emanating from the 50-foot high prosecular carried two people on stage shouting an elegance that enhanced their image. Now, rock music just looks a little tackier by the company it is the source of the s out as a series of arches emanating from the 60-foot high proscenium arch and projected on
the walls and ceiling. The lobby
has a grand staircase and gives
a three-storey ylew of small
people, large sculpture and metal
people, large sculpture and metal
out as a series of arches emanattrythm tacked on to it in a discharge search to greater the factor of the most famous,
City Music Hall will not really although seldom heard, oratorios
close after the Easter show, Surtomposed by Sir Edward Elgar
posple, large sculpture and metal
of Joy "but otherwise compleproportiments that rival any but
mented bim at best and usually
mented bim at best and usually

appearance there. Going through music with a new beat.

New York's famous movie his familiar repertoire with his house, 6,000-seat Radio City wife Mary sharing the stage at for rock music concerts is no Music Hall, is living out its last her own piano, Russell was not-days as a rock music venue ably successful when he slowed before a scheduled final closing the tempo of the songs to let the in April. The beatuiful art feed hall carry his plaintive voice ment parks. Though the hall was hall carry his plaintive voice ment parks. Though the hall was hall carry his plaintive voice ment parks. Though the hall was by Eduardo Mata, and an unusual collaboration between Imrat world, would never be mistaken most of the songs, as though greatest commercial popularity Khan (sitar and surbahar) and for the Rainbow Theatre in North excitement can be generated by of its time—the movies—it has Christopher Hogwood (virginals).

Louis Selwyn as Mick Jagger

people, large semipture and metal of our mented bim at best and usually now long past financial viability, ship from

the hall in his recent week-end in front of a piano playing old

appointments that rival any but the best entertainment the half can offer.

Good as Leon Russell is—and stylish as he appears compared to most pop music performers—the was much overshadowed by more showmanship than sitting even for the likes of rock stars by a 60-strong Haddo House Contract of a piane playing old who at least keep the lights care for the lights.

at Haddo House

Copies of the Annual Report may be obtained from the London Secretaries. Union Corporation (U.K.) Ltd., 95 Gresham Street, London, EC2V 7BS, (Quoting Ref. U.C.).

FINANCIAL TIMES

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Friday March 31 1978

New watchdog on trial

not necessary and that a more culties. effective system of self-regulainvolve the establishment of a public concern about their Sadat has shown how unrealistic Council for the Securities In operation, apart perhaps from is the Government's foreign Council will spring from the which is one day to be dealt woluntary recognition by the with by legislation. But conbodies represented on it that cern could flare up again at any credible ineptitude on a number and administration was

will continue to operate and en- watchdog will be concerned. force the code relating specifically to take-over practice. But Self-discipline it appears that the Take-over None of this is to suggest that Panel, which is the model for the principle of self-regulation the new and larger operation, is not desirable in itself if it may be given a wider role in can be made to work. Statutory ing appropriate action.

Lay members

The Department of Trade the Foreign Banks in London agreed 18 months ago that and from Licensed Dealers statutory regulation of the and the exercise of sanctions security markets by some body against outsiders who belong to similar to the U.S. Securities none of these associations and Exchange Commission was obviously presents special diffi-

tion would be acceptable. It A similarly wide issue is has now, therefore, given its implicit in the question, for approval to the arrangements whose sake the CSI is primarily worked out by the Bank of concerned to police the mar-England, in consultation with kets. The belief appears to be various City associations, which that there is at present no great dustry. The authority of this the question of insider dealings policy, the Israeli Prime without legal or binding force, cil of only three lay members. Mr. Begin is under challenge ment's desire for peace. could not in practice be and those appointed by the from within his cabinet, is being ignored."

Governor of the Bank, seems to castigated by a revived opposi-Yesterday's statement about underrate the public interest in-tion, and is facing growing progress was, and still is, the the chairmanship, financing and volved, especially since there public demonstrations calling operation of the Council, leaves will be no machinery for for his replacement.

a number of questions still un- aggrieved individuals to make answered. The framing of codes their complaints heard. The of conduct and the drafting of general public, moreover, will recommendations about UK probably not distinguish easily and EEC legislation will be in between financial misbehaviour the hands of a Markets Commit- in general and the particular tee, while the Take-over Panel kinds with which alone the new

investigating alleged breaches regulation of the markets is inof the various codes to be drawn herently slow, clumsy and up by the CSI and recommend- because of both the administrative and the legal costs involved expensive. The setting-up of a body like the SEC is a last It is not clear, however, and resort, and admission of failure probably can only become clear and is to be avoided if that is in practice, when the CSI will at all possible: the very fact initiate investigations of its own that a Labour Government came and when it will decide that to this conclusion after two breaches of its codes can be years of cogitation is itself dealt with "more appropriately" strong support for it. The Takeunder the domestic codes of its over Panel, moreover, though institutional members. This admittedly working in a more raises the wider issue, that the restricted field and among a extent to which individual codes small collection of professionals. of professional conduct operate shows how much self-regulation at present differs widely from is capable of achieving. But the me association to another and lack of urgency with which the hat the ability of associations CSI has been set up and the o discipline recalcitrant mem- secrecy in which the preliminors is also variable. Not all ary consultations were held are he associations concerned with not altogether encouraging. The

Incentives for productivity

x-month trial basis, of incen- kept under review. re payments tied to higher pro- Later in the year the CPRS ectivity. In British Steel, report agreed that the move to lowing an agreement reached measured day work had been in in a study recently under. These two conditions are Rotary Club. en by Leyland management clearly

ecework rates

h to measured day work efficiency. h Ford and Vauxhall had Uninterested operating for many years.

ng productivity."

ritish Leyland's car factories be improved, not abandoned ill be voting on whether to the possibility of including some pprove the introduction, on a incentive element should be

tween management and unions basically sound, but pointed out national level in February, that group bonus schemes, rk measured incentive nemes are being introduced or tended in a number of plants, by several European manufac by several European manufac Rotary Internations cause of over-manning and in-turers; typically these schemeicient work practices (many provided an additional payment which are as much the fault amounting to about 15 per cent. and steel plants is well was above the standard rate ow the levels achieved "Naturally," the report stated, comparable Continental "incentives cannot be paid

yland management clearly of the b'ghest The question is importance. There is a danger h'ghesi at can be done about it and, that incentive schemes will be When I asked John Jackson, particular, what contribution used simply as a means to elicit Secretary of Rotary Interbe expected from the re-in what should properly be national in Britain, about this, be expected from the re-in. what should properly be national in Britain, about this, luction of incentive pay regarded as a normal per he said that the expulsion had ment's 10 per cent. guidelines. ntil 1971 most of the Mid- The setting of the standards on that the breach had been the the next Council of Legislation. Apparently the size as well as is car factories operated a which the incentives will be related directly to indi- paration. Even if these conal effort. But the system ditions are met, it would be been allowed to fall into quite wrong to suppose that the y: not only was the negotia. re-introduction of incentives, on of new piecework rates a a group rather than an ince of endless arguments and dividual basis, will transform tient disputes, but there the performance of Leyland's British Sex Discrimination Act There must have been some have been cause to hiccup by the age-old method of lookus anomalies between dif- car factories; but they should

the preparation for the Such a programme must duction of the new system obviously include spending on inadequate: foremen and new plant and machinery, but supervisors were not pro- the weaknesses of the industry trained to administer it; have less to do with the volume the price that had to be of new investment than with its the audience had cheered at the The booklet gives the most they will not have to be folded vertical rod through its centre. to secure acceptance of the productivity, and this is true of defeat of these motions. It had graphic accounts of life in so much by the public and thus Some complicated instructions arrangements, particularly the economy generally. Those been a "high level of debate, Brazil, where Carter was yes, will last longer than the ten then follow: "The foot of the anning scales, was excess commentators, like the Depart- without acrimony," he told me, terday, and unfortunately fell months, which the old notes red is placed on the ground and Productivity fell as a ment of Applied Economics at with the clinchung argument into local hands. The Brazilians averaged. Cambridge, who call for a mas apparently being that women were none too pleased with what When I asked about the 3mm beneath." All you have to do is en the Ryder Committee sive increase in new industrial had their own comparable organ- they read. It was not just stan- size variations in the new notes "make about 30 random read-If at the problem in 1975 investment seem remarkably isations. Soroptimists, Altrusa dards of food hygiene which reported by the banks, the ince in a paddock and calculate felt that the company uninterested in the poor use we International, Zonta and the were attacked but also the safety spokesman told me that toler an average score for that area ances in the new notes were no of grass." What do you say to able standards of pro-vestment. That is the central professional Women's Clubs Rio de Janiero was portrayed different to those in the old that, Farmer Giles? International, Zonta and the were attacked but also the safety spokesman told me that toler an average score for that area ances in the new notes were no of grass." What do you say to able standards of pro-vestment. That is the central professional Women's Clubs Rio de Janiero was portrayed different to those in the old that, Farmer Giles? aging the potential for in- British Steel and many others And when could Rotary recon-dogs and muggers. The last is not material to controll no

yesterday on what was a built in the desert. desperate last minute bid to Most of the problems thes Government of Mr. mountable—even the question

Menachem Begin.

was hastily prepared based on nope rather than careful plan-ning, and the long-term political consequences were given less thought than the possible short-term benefits. The Garantees withought than the possible short-term benefits. term benefits. The Government. is deep in trouble both at home and abroad. While President

as is the law at present.

Mr. Begin's intentions are though it is not yet clear which

Mr. Begin's popularity has pen slipping steadily. The U.S.: rifts within the cabinet: failure to control the economy: the incursion into Lebanon: and defence. Mr. Begin's choice of an almost

the Government has failed to modify his position or resign. another fight with Mr. Begin. understand the historic opnor. But a carefully timed leak He refused to back its candidate

R. EZER WEIZMAN, drawal had been made, as was Israeli Defence the demand that Israel should Minister, went to Cario retain, the three air bases it has

save not only President Anwar surrounding the return of Sinai, Sadat's peace initiative, but also however, do appear to be surof the settlements. It was the The journey bears all the hall- fear that Mr. Begin might be marks of the Begin Govern- willing to let the settlements ment's method of operation: it wither away, that led the

Slap in the face

bodies represented on it that cern could flare up again at any credible ineptitude on a number angered, and many Israelis "its recommendations, although time. The presence on -e Count of other issues. As a result, began to doubt the Govern-

The real stumbling block to

Palestinians, Israel has refused to withdraw from the West The rifts within the cabinet Bank and the most it was preare so serious that Mr. Begin's pared to offer residents there party has quickly tabled was a form of local autonomy an amendment in the Knesset under continued Israeli military (parliament) this week which suzerainty. That ignored Pales-would empower the Prime tinian aspirations for a home-Minister to dismiss an indi-land, and ignored the 1.5m. vidual minister without the Palestinians living outside the

plain. He plans to try to restore Americans stepped in to try to Foreign Ministry. order by a cabinet shuffle, bridge the gaps between the two sides. Despite two rounds of the warring factions he will of shuttle diplomacy by the building up around him. Mr. get rid of. But it is not at all U.S. Assistant Secretary of Weizman's call for a new Govcertain that a house cleaning State, Mr. Alfred Atherton, and will save his own, weakened visite to Washington by both no progress has been made.

for reasons of history and of Party ministers.

greed to participate in the We hope it will, as its mode of dent Sadat's peace initiative, it loss of American support, and york of the CSI—it is proposed operation becomes clearer than was the Labour Party leader. Mr. Weizman had called for a spring of the control of the con day pointed to the key problem: clear challenge to Mr. Begin to The Liberal Party also has

to Egypt. This issue was raised claims that the story was Prime Minister. But Mr. Begin If Mr. Weizman succeeds, ernment wanted.

When the peace negotiation Minister; the paper sticks to it way for a Labour Party man to be easy to place a large decree quickly reached stalemate, the story, despite denials from the become the next president. The of the blame onto Mr. Weizman. Mr. Begin gained a temporary that of peace.

criticise us on this point?

tive?" one Brazilian asked.

Nota non bene

key issue, however, remains undermining his standing in Calro was the gamble of a despublic favour. If the Prime The score card is even. Mr. Minister chooses to dump the Weizman won a victory when he Defence Minister, he can also

Chances of

tunity presented by President about an American official call- for the mainly ceremonial post rather than Mr. Dayan to Cairo of the advancing column. Sadat's visit to Jerusalem on ing for Mr. Begin to be replaced of president. Instead Mr. Begin to try to revive the direct nego- Instead of having destroyed November 19. The Israeli peare rallied the Cabinet and the produced an unknown scientist fiations His calculation was com- the power of the PLO. Israel

visits to Washington by both he was made to look less than President Sadat and Mr. Begin, wholly loyal. He was also no progress has been made. abandoned by those ministers opponents have claimed their revenge for the terrorist attack that the only logical explanation with the street of the properties of the street of the stree most recent public opinion poll budge from the original peace him. But the rifts within the a National Peace Government, almost three weeks and has Jerusalem in November was

showed that 59 per cent. of plan which led to the confront Cabinet have not been healed. Neither side is prepared to faded. People are beginning to that the was tation in Washington last week Mr. Weizman, still has fairly give way, and it will be up to question the entire concept, as ately needed peace, at virtuation a good job as prime between President Carter and broad, if somewhat fainthearted the Prime Minister to decide well as the execution, of the in-ally any price.

In the unlikely event of Mr. minister, as against 79 per cent. Mr. Begin. Neither American support from the ministers of which side must go when he vasion of southern Lebanon. In the unlikely event of Mr. in December. The main causes blandishments nor hints of the Democratic Movement for changes his cabinet. It will be The heavy attack on Lebanon Begin proving right, he will of disenchantment are the deadpressure moved Mr. Begin to Change from some of the a hard choice for him. Emotion was supposed to have had two have not only large grounds in the control of the pressure moved Mr. Begin to Change from some of the a hard choice for him. Emotion was supposed to have had two have not only large grounds in the control of the pressure moved Mr. Begin to Change from some of the a hard choice for him. Emotion was supposed to have had two have not only large grounds in the control of the pressure moved Mr. Begin to Change from some of the pressure moved Mr. Begin to Change from some of the pressure moved Mr. Begin to Change from some of the pressure moved Mr. Begin to Change from some of the pressure moved Mr. Begin to Change from some of the pressure moved Mr. Begin to Change from some of the pressure moved Mr. Begin to Change from some of the pressure moved Mr. Begin to Change from some of the pressure moved Mr. Begin to Change from some of the pressure moved Mr. Begin to Change from some of the pressure moved Mr. Begin to Change from some of the pressure moved Mr. Begin to Change from some of the pressure moved Mr. Begin to Change from some of the pressure moved Mr. Begin to Change from some of the pressure moved Mr. Begin to Change from some of the pressure moved Mr. Begin to Change from some of the pressure moved Mr. Begin to Change from some of the pressure moved Mr. of disenchantment are the deadpressure moved Mr. Begin to Change, from some of the a hard choice for him. Emotion- was supposed to have had two
have not only have rescued his
sharp confrontation with the
sharp confrontation with the sharp confrontation with the that Israel must hold on to all ministers, and probably from camp of Mr. Dayan and his tical aim was to create a six of the biblical Land of Israel the majority of the Liberal friends. But he knows that Mr. miles deep buffer zone along East on the road to peace, since Weizman has growing public Israel's northern border. The This group represents about support, and appears to be the strategic aim was to destroy the Israel will have neutralised its

> tive answer to long range shell- it already is. territority. The second failed But if his bid fails to break because the conventional frontal ing or rocket attacks of Israeli

to the public in Israel, are the reports of tens of thousands of refugees fleeing northwards deeper into Lebanon, and the destruction wrought in many villages of south Lebanon has shocked many people.

It is clear that the Government did not give enough thought to what would happen once it has invaded south Lebanon. No real consideration appears to have been paid to how to withdraw, and who would fill the vacuum once the Israeli troops had gone. The Government does not seem in have taken account of the possibility of a U.N. force moving in. In effect Mr. Begin has brought about a situation which no one in Israel is happy about.

High point of popularity

It was Mr. Begin's first war as Prime Minister, and a dirty little war it turned out to be. Mrs. Golda Meir was forced to resign as Prime Minister after the Government's mishanding of the 1973 war. Last year the Labour Party paid the delayed price for that war and for the squabbling between nunisters in Mr. Yitzhak Rabin's Labour Government From a high point of popularity only a few months ago, Mr. Begin now appears to whole cabinet having to resign, territory controlled by Israel. Moshe Dayan, the Foreign candidate and thus opened the of the glory: if he fails, it will be headed down the same road, as is the law at present.

> Sending Mr. Weizman to perate man, striving to rescue a deteriorating situation. It

may even have set the Middle if Egypt makes a separate peace Mr. Begin's choice of an almost the Prime Minister returned unknown man as his caididate from Washington to a political for the presidency.

Among the welter of comment topic him within days. The Among the welter of comment topic him within days. The It is opposed by Mr. Dayan, Mr.

This group represents about the Minister whom. President military, power of the Palestine in the Sadat is really happy to talk to. Liberation Organisation The would make an Arab military power of the Palestine in the Sadat is really happy to talk to. Liberation Organisation The first failed becaused the buffer victory in any new round of zone does not provide an effect fighting even less probable than zone does not provide an effect fighting even less probable than

Because of that Mr. Rogin attack gave the Palestinian tiations, then Mr. Begin will treat ahead come under increasing pressure to step down. The pressure will come not only from the Carter Administration and the West in November 19. The Israeli peace rallied the Cabinet and the produced an unknown scientist plan offers withdrawal from the country behind the Prime called Dr. Yitzhak Chavet. The bulk of Sinai, but Israel insists Minister. All felt it their duty total lack of enthusiasm shown that the Jewish settlements built to show that Israel was no for Mr. Begin's candidate forced on occurred Egyptian territory badana republic whose leader his withdrawal, which was a since 1967 must remain even ruled by grace and favour of the PLO. Israel general, but from within Israel. His calculation was comthe power of the PLO. Israel general, but from within Israel. Minister had the best chance of Mr. Yasser Arafat for a Pales and most will find it hard to winning some concessions from tinian ceasefire. The occupation forgive a man who has thrown the Egyptians. At the same time of south Lebanon has brought away the best chance of peace the New that the chances of sucon occurred Egyptian territory badana republic whose leader since 1967 must remain even ruled by grace and favour of once the territory is returned the U.S. The Davar newspaper blow to the prestige of the cess were slim indeed.

The Egyptians At the same time of south Lebanon has brought away the best chance of peace the knew that the chances of suctions the PLO back to centre stage, which Israel has ever been once the territory is returned the U.S. The Davar newspaper blow to the prestige of the cess were slim indeed.

The Egyptians At the same time of south Lebanon has brought away the best chance of peace the knew that the chances of suctions the last thing the Israeli Gov. the last thing the Israeli Gov-offered. Few want to retreat any further into a state of



The little war that went

very wrong for Begin

BY DAVID LENNON, Tel Aviv Correspondent

success.

decided to send Mr. Weizman

only after the offer of with-planted by the aides of Mr. still refused to back the Liberal then Mr Begin can claim much. What is even more worrying sierce

MEN AND MATTERS

Rotary International remains a bastion of male exclusiveness but, in these days of equal management as of the trade of total pay, on top of the rights, wight this not be about and steel plants is well was above the standard rate raised yesterday by a report from Los Angeles that the tories. This point was underindependent of the description of the de icy Review Staff report on must be sound ones, reflecting California Superior Court against motor industry, published reasonably attainable potential. Its expulsion from the U.S. 1975; it has been highlighted These two conditions are Rotary Club.

The expulsion was for accepting three women as members. formance or, worse still, to probeen because the branch had vide a way round the Govern-broken the provisions of the constitution — though he added measure taken by the Rotary 1980. movement.

As a volutary, non-profit organisation, Rotary is exempt Travel tips women to join.



" Now productivity has been hit by the time deciding 'Yes' or 'No'!"

admission of women had some- Feminists will not be pleased the value, alas, is a variablea of piecework in which pay based will require careful prething to do with the extreme to hear that is not due until and the Bank of England say Down to earth

anomalies between dif- car factories; but they should of 1975. Jackson told me that heart searching among the the new note. But the result of ing over the fence. Drawing on groups of workers, be helpful as one element in a group of workers, be helpful as one element in a group of workers. Leyland decided to wider programme for raising excluded from the Rotary move before they set out on their and the banks has been that the Marketing Board's special Low ment since at least 1922. Last four-nation goodwill tour this banks are going to try to clear up Cost Productivity Services unit year Rotary's Council of week. The booklet they were the problems at their end. Legislation, meeting in San issued on the countries they A spokesman of the Bank of Grassland Research Institute Francisco had overwhelmingly would be visiting makes it seem England tells me that they will and Fisons of North Wyke to rejected three motions to allow that they would be dicing with be putting some 800m. new produce the . . Grassmeter. disease or death every time they notes in circulation in the 12 Jackson, who had been there, sip water or milk, munch an months from the recent "launch sists of a "horizontal plate

sider its position? Not before point may be true but Rio mug- forgery and in any case don't

gers are all a good foot shorter newspaper pages vary in size. than their American visitors. In Touche. any case, the Brazilians asked, who are the inhabitants of

But the least delicate touch An embarrassed BP Board yes is perhaps that relating to terday had to abandon its security. Do not say anything planned embargo until to-day confidential on the telephone, on any Press coverage of the

the Carter circus is told, and group's annual report. beware of loose talk in your GPO jumped the gun and rooms unless these have heen delivered 2,000 copies to share-checked for hugs. "If this is holders — including a number goodwill, what is the alternative of surprised stockbrokers ahead of the carefully planned March 31 release date. So now the Post Office could be receiv ing an unprecedented complaint -that it delivers ton fast.

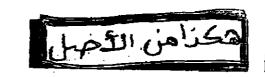
What could explain this over So now we know why we found zealousness? Nothing in do the surface area if the new surely with the presence on the pound note was only 819 per BP Board of Mr Tom Jackson. cent. of the old one, whereas General Secretary of the Union the masters of the Treasury of Post Office Workers. claimed it was 83.5 per cent.

that to some extent it will stay breathtaking technica Several clearing banks have agriculture: farmers can now advance is about to hit British been complaining to the Bank measure how their grass is that cashpoint pay-out machines growing more accurately than pooled its brain power with the

This revolutionary device conassured me that the women in apple or crunch a lettuce leaf. date" of February 9 He hopes which slides up and down a the plate is held up by the grass

Ubserver





FINANCIAL TIMES SURVEY

Friday March 31 1978

COMMUNICATIONS

New developments in communications networks and computer technology are providing great opportunities for both manufacturers and public telephone authorities. But unless extra demand for services can be created a large number of jobs in the industry will be lost.

called "convergence" of com- SPC exchanges, computers are connect their various offices. In telephone authorities. puter and communications tech-needed at all stages of producreflected in the structure and quality control and testing. organisation of manufacturing

A very obvious symptom is the highly successful move by create ever-increasing networks into the market for Private has been for the idea of vast Branch Exchanges (PABXs) central computers to give way when it recognised and ex- in more flexible concepts ploited the fact that the key to future telephone switching computer control.

S_{kins}

finding that the development of with all the immediate transthe most vital requirements for "headquarters." their future. Indeed the essence daily totals can then be transof switching networks now being mitted to update the central the longer term, however, there The Foundation awarded a thus completely wipe out parts pared with about 16,000 for a developed is a hierarchy of files. Any particularly difficult is likely to be an increasing de-fim. development contract this of the message. bundle of co-axial cables.

is of a very high order indeed, a company's outer divisions. likely convergence between talk to each of Even routine maintenance will. The concept of distributed in telecommunications and data boundaries.

The converse trend has been for communications links to

local mini-computers can be power at the place where it is needed, for example in branch At the same time, telecom- offices of depots of a company, munications manufacturers are The local computers can deal programming skills is one of actions without reference to computer via the data link.

may consist of some 200,000 to analogy to decentralised com-happens, computers will be The study is due to be, com- the aerial to the receiver, many systems interact with each which can have the effect of exchange specified parts of the with the complex issue of how sion by microwaves and optical by a

ing of computers, as the old capable of carrying the very could use the same paths.

impact of communications on electro-mechanical components rapid stream of signals gen-

to have on communications net- equipment is beginning to the provision of a high quality quate, it is possible therefore, to improve quality by excluding London, and most recently by is an abundant and intrinsically telephone service so that it can works are probably equalled by appear much more like the mak- communications network that data and coded speech unwanted "noise" from the waveguide is a cheap material (although the display information from a cen-

are replaced by semi-conductor erated by computers. These munications in Europe is now transmission which consists of in the ground.

obscure some of the bleeps and simultaneous conversations com- stray voltages. Consequently it phone lines. It is not difficult.

signals. High quality is par-hollow tube about the same costs of achieving the except ral Post Office computer. The whole future of data com-ticularly important for digital diameter as a car exhaust buried tional purity is high). But perprocessors and memorics. And links are generally leased per under study by the Eurodata a series of Morse Code-like Microwaves squirted down the is that optical fibre is immune tively slow rate imposed by the intimately related, and the so because of the complexity of manently by organisations to Foundation representing 16 bleeps. Unwanted noise may tubes can carry about 500,000 from electrical interference and

> rolumes can justify the large pictures would also require iminstallation costs and make use proved transmission capabilities. of the capacity of the system. Initially, optical fibres will also Reduced be used between large exchanges. They will be particularly suitable for connecting will bring grave problems to digital exchanges because of manufacturers, who will find the

Eventually, however, it is capacity is reduced. possible that optical fibre costs A waveguide, once installed will be reduced enough to be could, for example, almos competitive for routes which at obviate the need for any nev present have quite low traffic cable for many years ahead densities.

Some enthusiasts even pre-quire perhaps only a tenth c dict that optical fibres could the manufacturing labour forc programs of Byzantine com- task can be referred to the main mand for a public switching net- month to the U.K. software Traditionally, high density Optical fibre, on the other eventually be used to connect compared with the older electric work for data transmission company Logica for a study of traffic has been carried on co- band, uses a completely differ- individual subscribers to the mechanical systems, for a diode (similar to those used in creased usage of the lines, manufacturers and public telhair thin glass fibre, demand for more high capacity lems and to promote demand for other in unforseen ways, the removing information, and information stored in them, to make data networks com- fibre. Microwaves are very high Optical fibre has several advant- cable, but perhaps in the long new services and wider use (skill needed in the initial design therefore responsibilities, from This is another example of the patible, so that computers can frequency radio waves which order indeed, a company's outer divisions. likely convergence between talk to each other across national carry telephone conversations as about 2,000 simultaneous calls increase of data of the patible. if they were broadcast radio, per pair of fibres. Secondly, the tions. The Post Office's View- dark menace threatening jol

THE REVOLUTIONARY effect Furthermore, the manufac small computers but it would or computer language. Where niques to allow channels to carry transmission between towers, lng Post Office ducts. Third, a modified domestic television which computers are beginning ture of telephone switching not have been possible without the duality of the lines is ade- a greater density of traffic and like the Post Office tower in they are made from glass, which set to be combined with the

haps the most important feature transmit data at the comparais very suitable for carrying however, to envisage demand data and the direct digital trans- for faster transmission speeds Waveguide and other forms small computing systems to of microwave transmission are their receivers. Developments likely to be restricted to trunk of the system to handle still traffic photographs or, later, moving

All these new development their use of digital transmission labour required to produce pre vious levels of communication

Computerised exchanges will re

Two prongs to the revolution

By Max Wilkinson

The programs controlling a Distributed networks can similar to the ordinary tele- the growth and pattern of future axial cable similar to the cable ent principle. A small laser network. Clearly, this could equivalent number of switches medium sted exchange network therefore he a much closer phone network. When this data communications up to 1987, which carries a TV signal from light source or a light emitting only be justified by greatly in-300 000 separate instructions, cany structures than a mone-able to dial up other computers, pleted by mid 1979, and it will Coaxial cable now has two calculators) provide a pulsing Piped television or the use of phone authorities alike, is then Some these instructions can, in lithic central data processor, automatically if necessary, and have to deal among other things, main rivals. They are transmissional are carried viewphones could provide a fore to anticipate these profits and the contral data processor, automatically if necessary, and have to deal among other things.

Even routine maintenance will The concept of distributed in-felecommunications and data boundaries.

If they were broadcast radio, per pair of hores. Secondly, the tions. The Post Office's View-dark menace threatening joi increasingly require engineers telligence followed necessarily processing, because the trans- A key factor in all these They can be used in three main small size of the fibres and their data system which starts in and the stability of the industry of the industry of the fibres and their data system which starts in and the stability of the industry of the industry of the fibres and their data system which starts in and the stability of the industry of the fibres and their data system which starts in and the stability of the industry of the

Plessey: an important word in communications Electronic communications. By land line or radio. Carrying business can equip itself with a comprehensive speech and speech or data; telex; picture telegraphy data communications network. Plessey systems and equipment play essential roles in all . Plessey plays a significant role in defence as a major areas of communication: in public systems, in business and industry, in defence, in the UK and around the world. Plessey serves public communication systems as one of example is Project Ptarmigan, where Plessey is the Prime Contractor and design authority for this digital trunk the world's major telephone manufacturers, with exchange and

Plessey supplies commerce and industry with the most advanced private communications equipment including the new PDX all-electronic digital telephone exchange, direct

contractor for vital communication networks and other systems relied upon by Britain, NATO and many friendly nations. An and the Royal Air Force in the early 80's.



We can help you reach it.

Many companies aim for peak efficiency. Few achieve it. And why?

Because they look at the components of their business individually. Ignoring the glue that holds them to-

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single terminal concept

New services from Reuters ombine information from three parate data banks on one screen.

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are becoming less distinct, the interchange of constantly updated information is more important than ever before. This is what the new Reuter Monitor Terminal is designed to supply.

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Telephones ring the changes

system of computer control. ment into competing systems.

All the largest telephone expected here too.

relatively few systems currently system. available for export. The main The

None of the British companies market until at least 1983. a year after the first of the British are commissioned.

Vital

mechanical exchange equipment P

order (about \$500m.) but also more than one "brand." because of the very detailed technical assessment which the Australians made of the different systems on the market. Subsequently, an even bigger contract in Saudi Arabia was won jointly by Eriesson and was worth a total of \$3bn.

struggling against great environmental difficulties, the American Bell International is said to street. the next five years and a new door.

most telephone authorities country will almost certainly SPC system, on the other hand, countries will want more than throughout the world will have hid in competition with Eries- runs to perhaps 200 separate one or at most two separate electro- companies.

about 200,00 lines is expected updated by engineers. In the developed countries to go to open tender in the The complexity arises from this change has involved huge United Arab Emirates this year, the fact that SPC systems have of tendering is so vitally important of the latter of the fact that SPC systems have investments of typically around the world's major companies the electro-mechanical the world's major companies of routing calls with the same reason, the for this SPC system can be for this SPC system can be

mitted to their own systems require some 220,000 lines, on charging of calls and a host of tage which may continue for Japanese Post Offices are com- or two. Colombia is expected to developed by their own manu-facturers, though in France a decision will be made other inter-related tasks.

As Mr. Kjell Sandber, decision has been taken to bring in the technology of Eriesson of contract in Argentina for about Eriesson engineer, put it: "The have already made their choice of the technology of Eriesson of contract in Argentina for about Eriesson engineer, put it: "The have already made their choice of the contract in Argentina of the contract in Argentina for about Eriesson engineer, put it: "The have already made their choice of the contract in Argentina of the contract in Argentina for about Eriesson engineer, put it: "The have already made their choice of the contract in Argentina for about Eriesson engineer, put it: "The have already made their choice of the contract in Argentina for about Eriesson engineer, put it: "The have already made their choice of the contract in Argentina for about Eriesson engineer, put it: "The have already made their choice of the contract in Argentina for about Eriesson engineer, put it: "The have already made their choice of the contract in Argentina for about Eriesson engineer, put it: "The have already made their choice of the contract in Argentina for about Eriesson engineer, put it: "The have already made their choice of the contract in Argentina for about Eriesson engineer, put it: "The have already made their choice of the contract in Argentina for about Eriesson engineer, put it: "The have already made their choice of the contract in Argentina for about Eriesson engineer, put it: "The have already made their choice of the contract in Argentina for about Eriesson engineer, put it: "The have already made their choice of the contract in Argentina for about Eriesson engineer, put it: "The have already made their choice of the contract in Argentina for about Eriesson engineer, put it: "The have already made their choice of the contract in Argentina for about Eriesson engineer, put it: "The have already made their choice of the contract in Argentina for about Eriesson engineer, put it: "The have already made their choice of the contract in Argentina for all the contract in Argentina for

The Venezualans are also ex- Practicable competitors are the AXE system developed by Ericsson of Sweden, the ESS range of expension of the ESS range of expension in the industry to be making their decision in 1978-79. In that country,

Japan, Metaconta from ITT, the contracts will depend on a designed to make the engineers' EWS system from Siemens of complex of political commercial task in handling the system complex of political commercial task in handling the system West Germany and the French CIT-Alcatel's E10 system and technical considerations, the PRX system developed from private branch exchanges by Philips of Holland.

None of the British companies

complex of pointical commercial considerations, easier.

Authorities naturally want the Ericsson has also proncered the established competition the established competition the established competition the system designed to ensure many countries the provision of that an engineer working on one technology for the actual switchjobs is of almost equal impor- part of the system cannot technology for the actual switchmaking telephone exchanges tance, so that companies with rewrite a programme in such a mg of conversations. Many SPC will have a system on the local manufacturing plants may way that it will accidentally systems still use be preferred.

Post Office's System X exchanges the struggle to gain a share of bility was one of the major discontenual advantage to System because the companies which Ericsson's. An accumulation of been overstated. gain acceptance of their own accidental changes to the pro-The British will therefore be SPC system will be able to look grammes could eventually cause Digital too late to compete in the vital forward to very substantial the system to become unmanfirst round of tenders as authori- follow-on business over the next ageable, and re-ordering of the American systems, and the Several major contracts have completely from tendering for ness. nological point of view in 1977 systems are immensely compli- very much greater flexibility of order for several different parts was the decision by the Austra- cated compared with the electro- an SPC system, greater ease of of the world. It is more likely that System Eriesson's AXE system in pre- they supersede. For example, maintenance. Since changes to X will be judged by its case of ference to ITT's Metaconta, the manuals describing a tradi- an SPC network can be made by handling by field engineers, by The choice was narrowed down tional Crossbar exchange can be instructions from a computer its success in reducing the from a wide range of tenders contained in between four and terminal rather than by engi- daunting complexities of proto these two companies, partly, eight files which can easily be neers with soldering irons, a gramming to easily manageable no doubt, because they were stored in each exchange for large reduction in operating modules, and by its flexibility in both suppliers of electro reference and maintenance pur staff is also possible. with factories in the country. made by different manufactrequired to keep the system to exist in most telephone net-The Australian contract was turers are not wildly dissimilar, running are of a comparatively works until-well into the next seen as important partly because so that it is possible for main-high order, and include concentury.

of the large size of the eventual tenance engineers to understand siderable programming exper-

made the important step, from son. Siemens and American files, which can scarcely be systems in its network, and stored in each exchange, let authorities will place a high mechanical exchanges to a new . A similar sized contract for alone learned, understood and premium on ease of mainten-

As Mr. Kjell Sandberg, an

To make the systems practicable, a large number of engichanges from Western Electric than half the present system SP1 from Northern Electric of Canada and EAX from American GTE, the DEX system from Interpretation of the present system and has a manufacturing subsidiary there.

The award of most of these spearate programs which are themselves computer controlled. The AXE system, sidiary there.

The award of most of these 50 separate programs which are The award of most of these 50 separate programs which are

tise. For this reason it is

IN THE next two to three years already have a foothold in the The documentation for an unlikely that any but the largest

That is why the current round computer programs. These pro. British Post Office's slowness in grams do not only route calls, developing a stored program AT and T in the U.S., the expected in several other parts however. They are used for control system has put the two British, French, German and of the world in the next year forested and main-X comes on to the world Mexico, where ITT has installed about half the network, but between 200,000 and 400,000 an U.K.'s future market).

On the other hand, it could still have access to the Metaconta system or its replacement, if it finds eventually that System X fails to realise the exporting hopes which are now being pinned on it.

It is clear that to do well in exports, System X will have to provide features which are subalter the working of another mechanical switches controlled it is certain, however, that part of the system. This passibly a computer, However, the these markets over the next few advantages of earlier genera. X of being designed in a fully years will be extremely keen, tions of SPC systems, including digital manner has probably

ties throughout the world make 10 to 15 years, and they may be programmes could then be a French E10 exchanges are their first choice of system. able to exclude competitors very expensive and skilled busi- already fully digital, while -Ericsson's AXE system has a already been awarded. Perhaps subsequent orders. The main Against these complexities, a digital option which is now in the most important from a tech-reason for this is that all SPC telephone authority can set the service in Sweden and is on

working alongside old fashioned On the other hand, the skills exchanges which will continue

host of satellites Philips with Bell (Canada) as SAFETY AT sea and in the an accuracy of at least 50 metres. By taking several "readings" of

Ericsson was successful again orbiting satellites. These costly ment. in Brazil, where it already has items of space hardware are no satellites launched by the U.S. any given moment. a strong foothold, but lost to longer the exclusive province of in the Transit series had one Siemens in the Philippines and military establishments as shipdid not tender against ITT, military establishments as shipobject in life—to enable Polaris orbits from which the receiver did not tender against ITT, owners and airlines, passengers submarine captains to know pre- takes information, the greater which won a large order for and governments demand everMetaconta in Korea.

Several large contracts are shortly coming up in the Middle shortly coming up in East. In Iran, where GTE is seek to justify their enormously

expected that GTE will obtain phone conversations beamed oceanographic research. a further firm order for about upwards to a "stationary" satelever, the Iranians are expected fied to sound as though the bands. The signals are trans- are essential. o require about 3m. lines in speaker were in the room next mitted continuously, with data. The Transit network is now

contract could be open to the There is a host of satellites giving ground stations, ships or original satellites may have only world's bidders late next year. ferrying messages across the aircraft data on the satellite's a few years of usoful life left.

In Iraq tenders are expected sky. But more important than precise orbital location. but earlier this year contracts this year for a 100,000 to 200,000 simple messages for the ship or lines of computer controlled or aircraft captain is the existence lite navigation signal receivers stration for an improved version, Stored Program Control (SPC) of advanced aids in space which with computer memories store called the Nuva satellite, which and can pin-point positions on the data as satellites pass overhead, may see the system through to Japanese companies, which surface of the globe to within

managers of the network. This air will depend increasingly on -and a good deal less than that the transmitted signals, the recommunication with earth. with advanced receiving equip- ceiver can be used to give its

CONTINUED ON NEXT PAGE

navigation idea of where the satellite is at

made available for commercial many "cheap" receivers, costuse in 1966, six years after the ing less than £10,000, do not first Transit was lofted on high, have the capability of giving As well as the satellites' use in readings to an accuracy of a have 600 consultants studying. He has already become communication, they have been few metres. For some applicathe problem. It is generally familiar with transatlantic tele-used for aiding in geological and tions this may not be a concern. But where the job is that of In simple terms their main locating a drilling rig on an 500,000 lines in the near future lite orbiting at the same angular function is to transmit radio ocean oil-field, the expense in addition to the 108,000 lines speed as the earth and beamed signals on very high frequency simply cannot be spared if in its present contract. How-downwards again suitably ampli- and ultra high frequency wave- accuracies down to a few metres

on the time of transmission, 18 years old. Many of the Complex ground-based satel- were placed by the U.S. Admini-

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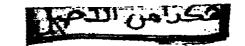
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COMMUNICATIONS III

Authorities exert their influence

PUBLIC telephone authorities which are almost a mirror image nationally reputable a com-sales overseas, together with highest in the world, and with (and thus the companies' manu-there has been a recent ex-mates there will not be comparison of their own—i.e., they are pany as Ericsson for its equip-the added fact (which often sits characteristics which are in comparatively weak domestic ment—indeed, the Swedish PTT uncomfortably, with the first) munications development of overseas sales. Thirdly, it tried of affairs is working against the X before 1982-83, by which contradiction to each other but ally, but strongly organised on manufacturers much of it on its that Sweden has among the which taken together act as the an international or transmant of the company has had to repart world has meant that Ericsson AXE, the Philips making another attempt — some Emirates annother attempt — some Emirates annothered last month PRX or the ITT Metaconta ex-

boundaries.

institutions: almost by defini- and internationally. tion, since these institutions are Take first an extreme case: created to do a national job Sweden. Sweden is extreme (or institution

These are that public tele- munication manufacturers are by the relative smallness of the bility that PTTs will often pay known as large multi-national companies domestic market.)

umbrella organisation which basic "contradiction matrix" can organise, across national against real examples to see how policy and geography has only well it functions as a description Naturally, this characteristic of what is happening in teleis shared with almost all public communications both nationally

because of the important positive out of significantly larger and proof the world, has an all but come high quanty custom out. Take, or the renter as it is presently allow them to significantly larger and proof the world, has an all but come high quanty custom out. Take, or the renter as it is presently allow them to suppliers to cut corners present the near future. It is standards are had little (until recently) fully electronic in the sense viously thought uncuttable. But nevitably play in any such their own; in the capital Stock.

The imperative to achieve widely agreed to be among the regard for how its purchasing commonly used.

The imperative to achieve widely agreed to be among the regard for how its purchasing commonly used. holm, there are around 1.2 Most of all. however, it is phones per person—an index of worth stressing the point the efficiency of the Swedish because the PTTs confront com- PTT no doubt. But-its policy of panies possessing characteristics not depending on even so inter-

Naturally this combination of produced the preconditions Standards for success, or some of them. The company itself, and the workers, has done the rest.

major determinants in the field continental basis in the company has had to regard world, has meant that Ericsson fairly busy (the three being making another attempt — some Emirates, announced last month PRX or the ITT Metaconta extended communications in its plans for investment over changes (to mention only the widest sense.

The symmetry is the world as its market. (It has concentrated strongly on Plessey, GEC and STC, the world many fears behind many fears behind many fears behind many years behind many years behind many years behind many years behind many fears behind many fears behind many fears behind many fears behind many years behind many years behind many years behind many fears behind many fears behind many fears behind many fears behind many years behind many fears behind many fears behind many years behind the major elements in the field continental basis.

The symmetry is the world as its market. (It has concentrated strongly on the plant for investment over changes (to mention only the subsidiary of the first the fact of the first the fact of the first the stripped the new U.K. tech-

Thus it presents an almost engineers. skill of its engineers and other too classic case of the general point made earlier—a company additional It has resulted in a company which is weak domestically and

Most equipment manufactured

created to do a national job Sweden. Sweden is extreme (or under the control or sponsor at least very dansual) both which has sales of more than 80 which has the must make.

The partition for the U.S., which was also than nology of communications and tions companies. L. M. Ericsson. than the Dutch company somewhat greater length.

The British Post Office, the Britis come on stream, and partly tion. Sweden is second only to home base (though Philips is first institution of its kind in traditions, and its insistence on companies can only offer the tronic all-British system is forced out of telecommunications of the important position because of the important position because of the important position and its insistence on companies can only offer the tronic all-British system is forced out of telecommunications and its insistence on companies can only offer the tronic all-British system is forced out of telecommunications. The British system is forced out of telecommunications are in the important position and its insistence on companies can only offer the tronic all-British system is forced out of telecommunications.

authorities—known as authorities—known as always) dependent on authorities—have an the good offices of their demestic nationally—that is, within the last six mouths their own borders—and almost the own borders even then it must be exhaust. In any customer by the post office before being by the Post Office before being by the Post Office's requirements capically maintained by Post Office which are for new semi-electropied could only climb aboard. The companies were and are majorears and for major international contracts on free to turn down Post Office electroreplacement There are a number of mechanical equipment.

major international contracts on free to turn down Post Office the coat-tails of much larger contracts in favour of exportnumber of mechanical equipment. Thus companies. In this case the oriented telecommunications characteristics to get Post Office contracts, that Plessey TXE2 exchanges were manufacture—though naturally, ish Post Office is what Plessey GEC and STC

In sum, then. Britain has a decision to switch from the stripped the new U.K. tech-

John Lloyd



A Multitone 'Pagephone' being used by a British Airways passenger service assistant at Manchester Airport.

Satellites CONTINUED FROM PREVIOUS PAGE

the end of the century.

vastly improved navigation and of a radar display, although it position information system is is by no means certain that likely to be in operation. Called these could be interpreted in-Navstar, this also has its origins stantly in military strategy, for one aim purposes. of the U.S. Air Force and U.S. Navy, sponsors of the pro- the the Anglo-French publication gramme, is to create a satellite in February, 1974, of a report hased navigation system capable describing the Service d'Inforof providing any moving ship, mation et de Surveillance de la aircraft, cruise missile or even Navigation en Manche and the tinuous basis.

likely to be fully operational radar surveillance and inforbefore the mid-1980s, but there mation services for Channel are certain to be commercial shipping. applications, as the military For the shipowner these authorities respond to a genuine reports and the continuing need for highly accurate naviga- studies on improving safety-in ton in shipping lanes and in the Channel have already had the air. The military potential important implications. On the of the system will be safe- English coast expansion and imquarded through the use of provement of the radar instalsignals which will be coded and lations following the Angloproof from interference from French Safety of Navigation jamming. The public will have Group report of 1974 was comaccess to a simpler signal.

years of the potential for acci- small experimental radar predents in the world's busiest viously used. shipping lane, the English A continuous photographic Channel. Here, a mass of record of the radar displays is research has been carried our maintained by the National by the British and French Maritime Institute. Governments.

The object has been to retraffic flow in the Channel, separation scheme operated in using time lapse radar film and the Channel. ship identification. In June last quency (VHF) direction finder

des Transports. This French body has radar display. It is likely to be carried out research into ways of great value where a ship in the might using low-level difficulties is unsure of its at night, using low-level difficultion. searchlights. One novel solu-

tion may involve the automatic By then, however, a new and data processing of photographs identification for

Much of this work followed vehicle of its position on a con- Channel Navigation Information The complete system is unposals for the development of

pleted on August 18, 1976, when In the more conventional two new 20 kilowatt radars, one world of radar, there has been at Dungeness and the other at intensive study over recent St. Margaret's Bay, replaced the

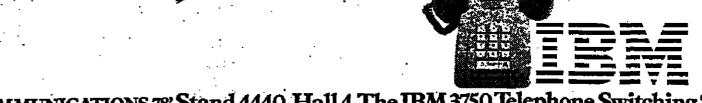
A continuous photographic

In France the Service d'Information et de Surveillance de la duce the risks of major Navigation en Manche has collisions. Britain's National extended its operations centre Maritime Institute is working and installed a form of comalong two main lines. It has puter-aided data processing. This provides a synthetic display information and documented of radar input. A computer data relating to casualties and allows automatic detection and navigational incidents. Now it tracking of radar echoes from plans to continue research of vessels contravening the traffic

In addition, a very high fre vear this included a full-scale enables ships using their VHF channel survey in conjunction ship-to-shore radios for conversity the Institute de Recherche body has corresponding echoes on the

Lynton McLain





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and a specialist company in the transmission field, together with LMT - Le Matériel Téléphonique, Société Française des Téléphones Ericsson and LTT - Lignes Télégraphiques et Téléphoniques, constitute an international conglomerate capable of supplying complete networks and of meeting all advanced communications requirements.



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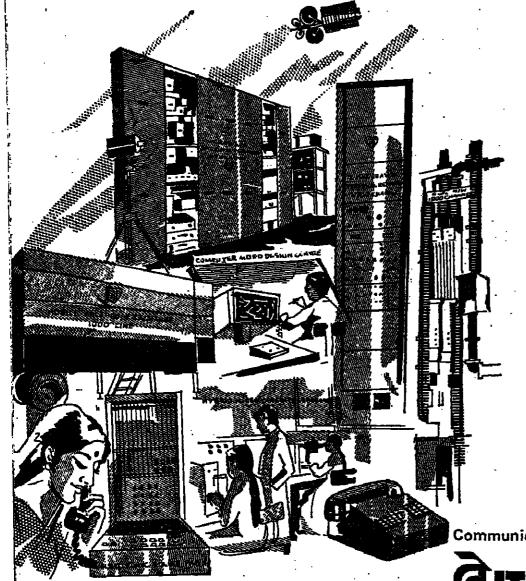
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Strains on the manufacturers

turing base at Geel, near Ant- The British company GEC is change. conta 10c, ITT's new fully elec- and the French CGE. renerable equipment.

paralleled. The Geel factory manufactures three types of equipment. It is much larger and technology. and its production can be much The two U.S. companies less fully automated. Yet the present interesting cases, both Joint

tracts and win new ones.

minor and sharply decreasing part of the company output.

They are allowed in the company output.

The company output.

The company output.

The company output. fundamentally different from the components for its present ranges of models. But telecommunications companies must often give over the bulk of their while at the same time tooling up for the production of advanced equipment for which there may not yet be much demand. In development terms they must face both ways at once, forward and back. Naturally, this places a considerable strain upon their capital requirements at any given juncture, and gives a particularly sharp

Crossbar

number of facilities which somely. could be offered to the customer Butler Cox predicts a vast greatly increased. The harness reduction in communications Interleave manufacturers and for their angles, the satesime would show the major customers, the PTTs, is an even greater advantage.

over ten years ago, TV channels equivalent in other media. More that fewer engineers can of course, this is reducing the as well as data transmission at significant still is the fact that the cost per system-mile is exchanges. The harsher conchanges. The harsher concompanies would not be able to Post Office decided to take the

stant pressure to modernise and transmissions suffer problems.
to innovate, both to offer better

Nevertheless, it appears that he set up all over Britain by ability to carry as many as

large expanse of ground. In British Plessey, the French extremes, With the exception billing may be threatened. the reception area the Meta- Thomson-CSF, the German AEG of Ericsson (discussed else-

company is obliged to carry on because they are so large and producing it far into the future because they are strongly conif it is to meet present con-trasting. For reasons discussed made a joint announcement counters over similarly main-This state of affairs is one and Western Electric have stallation of the 500,000th SPC entertaining mudslinging on with which most major telecom- between them a virtual (stored programme control) both sides failing wholly to dismunication manufacturers are monopoly on the supply and telephone line in the Dutch guise the desperate nature of familiar, although the ITT plant manufacture of telecommunica- telephone network. The anthe battle. For large diversified in the above example shows it tions equipment of all kinds in nouncement was made the occa. companies like Stemens and in a particularly graphic form, the massive U.S. market sion of an international Press. It is that while developments in Western is now the largest conference. To U.K.-conditioned switching technology have been manufacturer of its type in the ways of thinking, it was puzzl-leaping ahead over the past world, with more of its ESS ing that the Dutch authorities decade, the investment in pre-electronic exchanges in opera-should have shared the antions manufacture— L. M. Ericsvious technologies — electro- tion than all the electronic nouncement with Philips: the vious technologies — electro non than all the electron nonneedment with running son, Plessys, Industrial and mechanical, in the main, with exchanges of its competitors put British Post Office tends to future can only hold an unsome semi-electronic—has been together. Until recently, keep its manufacturers rather ceasing effort to offer more coasing effort to offer more

An automobile company, for the developing countries of the

These companies have been both in a home base and abroad.

tion of the electro-mechanical of the world market: they also panies could offer in the export are no domestic suppliers, and space and requires much more tend to be the major innovators markets, a field in which the these markets are becoming labour than the electronic and the leaders in technique authority can be more or less very rough indeed.

What this will mean will vary neighbor.

elsewhere in this Survey, Bell with the Dutch PTT on the in- moth contracts, with much some semi-electronic—has been together. Until recently, keep its manufacturers rather so vast, and will cost so much Western Electric had no extrato replace, that the replacement U.S. presence for the excellent market in these technologies reason that it did not need one. The PTT saw anything in the properties the properties of the ITT, however, was barred least unusual in using the line's panies, like NEC, present prac-

ITT'S BELGIAN subsidiary. Bell Swedish company L. M. Erics- has grown large in domestic from which had been formed to — a confusing name, with son. American GTE, then operations, the other in foreign bid for it. Even traditionally nothing to do with American Japanese manufacturers, Hitachi operations. That state of stand-offish authorities, like the Bell — has its major manufacturer and NEC.

The Privite appears to the property of the privite appears of t werp. The factory is ultra-next in rank, then Dutch Most of the other manu- the knowledge that if they do modern, long and low, covering Philips, Northern Electric, the facturers do not provide such not, their own suppliers' vig-

The future for the companies where), the companies operate looks, if not bleak, then uncertogether with some rather more listed in order of size of turn- with the domestic environment fared with this fact, that while renerable equipment listed in order of size of turn-over; but it should be noted traditionally providing the basic they now have greater capacity The surprise is that, once inside the factory proper, on the
busy workfloor, the exhibition
busy workfloor, the exhibition
in resenting is to some extent in reception is to some extent major interests elsewhere — as companies forming exceedingly rate than before if they are to GEC and Hitachi, for example, close links with their own PTTs, maintain even current levels of Those whose major or total out- frequently acting as R and D employment, they are facing switching equipment, representing three different stages of the two U.S. companies and having the authorities of domestic markets which are technological advance: two kinds of electro-mechanical kinds of electro-mechanical to a lesser extent Philips — meant that the PTT's ordering present high rates is lunited. (the Metaconta). The production of the electro-mechanical of the world markets that the vagaries siderable degree what the compete in markets where there

enormously from company to company. For Western and ITT. there is no doubt that it will GEC, it may mean a relative deeae in the importance of their relecommunications businesses. For companies wholly or largely the output of the manufacturers from the market by the Bell installation as a boost for tice seems to point to low-cost monopoly: It thus went elsems obeyond what most other lem go beyond what most other manufacturers must cope with.

(at first) Latin America, then markets.

ITT, however, was barred least unusual in using the line's panies, like NEC, present practice seems to point to low-cost philips' SPC system—the PRX operations in developing countries. The common factor is markets.

Improving the service

'Convergence" by the Butler wartime and post-war stringen- contributed greatly to the under-Cox Foundation of London, it cies and a number, including standing of the problems of this was pointed out that if a num- the British one, developed some difficult technology, but in the The technology of telecommunications has been electroments were to band together getting a quart into a pint pot. components the work went into mechanical for decades, based on the Strowger (or step-by munications satellite to link 50 technique called PCM, or Another reason for the hold was provided and provided and

ing of the computer to the ex- charges. An example is a call Ing of the computer to the excharges. An example is a call change meant that switching from Britain to Germany where This makes it possible to set up to show the ability of decisions were made centrally, the basic unit of charge is three interleave the signals from millimetric waves in a helical much faster; and that much pence. This buys a user five several conversations, decoding system to carry any form of greater attention had to be paid seconds. For the same price, them at the end of the PCM communications with an error to software—the writings of the satellite user would get 300 line. With a sufficiently high rate in the digits transmitted of seconds of time or 60 times as sampling rate it is possible to less than the million. programmes—than ever before, seconds of time or 60 times as sampling rate it is possible to less than one in ten million.

One of the major effects of much. In the reverse direction, go much further than telephony this development, both for the since German charges are much and provide, as AT and T system able to support 475,000 manufacturers and for their higher, the satellite would show demonstrated in the laboratory two-way voice circuits or the

sequences of that effect have companies would not be able to Post Office decided to take the other competing systems for a not been felt generally, in part put up the £5m. or so required, plunge—after investigations fully loaded network. because the new technology is but the public telephone autholiasting some 18 months—and. Matters have not should still in because the new technology is out the public terephone author lasting some to months and at an early stage of introduction, rities of the various countries order from GEC Telecommuni-in part because growth in the involved would be most unlikely cations and from STC seven the Post Office disclosed plans telecommunications market still to grant permission. At the systems based on this technique, for the installation of a 132 km. compensates for it. But it will same time, there would have to each capable of carrying 1,680 millimetric two-inch helical

equipment to their customers too many companies take com-the late 4980s. and to save on labour costs. But munications costs for granted Signals from because they work in such a though these are frequently ments of 30 channels each are has a lead over U.S. and Japan public environment—most sup- much higher than computing combined into a stream running since it has been operating a ply Government, or quasi-charges. When close scrutiny Government agencies — their of what it costs a company to decisions cannot merely be keep in constant touch with its branches and overseas opera-What, then, are the major tions becomes a matter of companies which chose to re-routine there may be a great main (or are allowed to remain) deal more pressure on PTTs

ern Electric (a subsidiary of considerations that telecom-AT and T) and ITT, the munications authorities must as a form of carrier. archetypal (or unique, depend- have in mind at all times as they ing on how you view it) multi- investigate methods of improvnational; then comes the Ger- ing internal and external serman company Siemens, the vices. Many of the European

edge to the competition in new IN A very recent report on systems suffered severely from during the Second World War

step) or crossbar switch. There of their offices and sites in pulsed code modulation, it was that a coast to coast carrier in step) or crossbar switch. There was, however, a gradual evolution away from distributed control (as in the Strowger system)

There was and sites in phised code modulation. It was that a coast to coast carrier in various countries, they could do found possible to carry several the U.S. of the size then thought conversations simultaneously feasible would have greatly where only one was carried exceeded the growth pattern of towards common control even a satellite and its launcher, and before. This is done by the Bell system. before the advent of electronic pessimistic assumptions about sampling the analogue sound. But because of the unprece-processors. Their widespread the extent to which the message pattern at high speeds and dented expansion of traffic in availability completed and carrying capacity of the "space using the values found to des America the ideas were reacti-accelerated the trend, and exchange" would be used, the cribe a particular outgoing vated and a joint project set up meant in addition that the operators would profit hand-pattern as a series of peaks to build an experimental line. rather than a continuous wave. This took advantage of the latest

not remain so for long.

be standby capacity in the form telephone calls simultaneously, waveguide system between This, then, is the working environment of the manufacturers, through existing landlines for 4.4 mm, coaxial cable. This would make the equipment and the Ism. project would be up transmissions suffer problems.

Signals from 56 PCM equipper second.

method of transmission started ness is offered. over 30 years ago in Britain at The effort on waveguides was in this difficult market? First, generally to provide services at Laboratories started to look at microwave radio systems fade in importance and size, are the the lowest possible cost.

two American companies. West—This, then, is one of the major

Electric (a subsidiary of considerations) that telecom—

in importance and size, are the the lowest possible cost.

the possibilities of guiding considerably over the free microwaves through long pipes space paths they travel through

500,000 simultaneous calls.

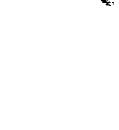
high power devices from the electronic component engineers

and over 14 km, of test line was

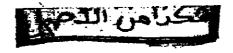
at 120m, tiny signals (binary full scale production plant for digits-or a form of morse code) some time. But it will not take long for its competitors to move Development work on this from the pilot stage if good busi-

in earrying digital traffic. They · British radar successes have high immunity to distor-

CONTINUED ON NEXT PAGE







Competitive world markets

\ROUND the time when ITT be heavy on the tales of nights vas becoming aware that it was spent in the bush inlikely to secure the contract creatures unnamed and unor the extension to the Saudi known dug up the newly-laid Arabian telephone system—at cable. At around the same time 2bn, the biggest deal of its as it was losing the Saudi deal, .ind in the world-but long ITT won a smaller contractrefore ITT was willing to pub- worth a few bundred million icly concede defeat, a senior dollars-in South Korea, which xecutive of ITT (Europe) was would involve digging up much sked by a journalist how im- of the central area of Seoul. Noortant the deal was, and what one had much idea of how to amage it would inflict on the work out the cost of doing so, orporation if it were lost.

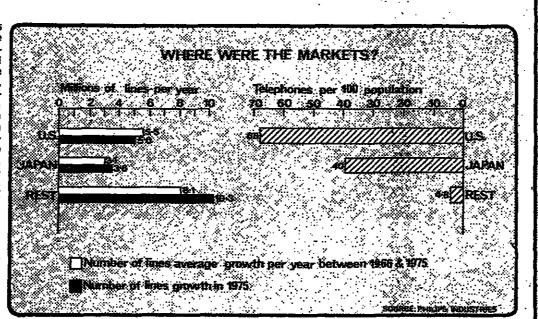
er cent, certain that the con- South Korean property law. ract_would not come the way f ITT, protested that it was imost certainly in the bag and panies cutting each other's hat the opposition was running throats to get into the uncared. However, to answer the charted territories of the deuestion, the questioner should veloping countries' markets? ear in mind that while deals Quite simply because the mar-ke the Saudi one were terribly kets of the advanced countries uportant, the markets of the are either strongly, protected eveloped world were actually for their domestic suppliers nuch more lucrative. And against foreign competition urther, he added, the kind of (U.S., Japan, U.K., France, Ger- tively low narkets in which contracts many) or too small to offer countries like Brazil, Mexico, Western's products, one which especially the PTI's of the devere being won now-Saudi much of a market anyway, and the USSR are obviously has meant that this, the largest veloping world-will find themcrabia being a good case in After your own backyard, the striving to catch up. Less telecommunications company in selves even more assistuously oint-were so fraught with dif- developing world is about the obviously, France shows rapidly the world, has ignored the rest courted than before culties that vast, turnkey con- only place to go. racts like the one under disussion were often literally First, it is necessary to get aside by the French Govern- But even vast markets have Far East (especially the former, for trouble than they were some idea of the size of the ment for telecomunications their limits. Nearly 80 per cent because the oil-rich countries

other less than wholly forth- £18bn. oming about the deal. was

an exercise which would in The ITT official, who was 99 evitably depend heavily on a fairly detailed knowledge of

So why, then, are the com

with a market (outside the U.S.) The ITT man, who was being estimated in 1977 at around Growing



growth. First, it is necessary to get aside by the French Govern- But even vast mark

comestic European and Ameridominant U.S. shows over 5 per which has led companies to phones in rooms previously As for the domestic markets, tions, nothing has caught the bands below 10 GHz and are not an (and Japanese) markets are cent. growth in the 10 years be- join the very savage game of free of them: but that, too, has those which still have plenty of imagination of the man in the likely to start using those over building experimental systems till the largest in the world, tween 1966 and 1975, but the telecommunications exporting—limits. Western has been growth left in them (as in the street more than communications that limits is that large pickevidence is that that growth is that lure, coupled with the fact forced in recent years to look U.K.) seem unlikely to be those base made it possible for bands for its coupled with the fact forced in recent years to look U.K.) less. For example, while the slowing Japan has overall lower that domestic markets are east, north and south as well opened up to the free flow of these have made it possible for bands for its own satellite to over £500m. a year by the

The second chart puts things been connected up by Bell, begin to show signs of strain. Its wholly unwelcome (to the into clearer perspective, show which monopolises city and lits wholly unwelcome (to the into clearer perspective, show which monopolises city and lits wholly unwelcome (to the into clearer perspective, show which monopolises city and lits wholly unwelcome (to the into clearer perspective, show which monopolises city and lits wholly unwelcome (to the into clearer perspective, show which monopolises city and lits wholly unwelcome (to the into clearer perspective, show which monopolises city and lits wholly unwelcome (to the into clearer perspective, show which monopolises city and lits wholly unwelcome (to the depend increasingly, like it or not, upon their home bases; will supersede undersea cables the availability of improved the availability of improved the surfactional companies will come achieved by any other means.

To say that space satellites of laser beams has grown with or not, upon their home bases; will supersede undersea cables the availability of improved the availability of improved the full of not not have been mean that companies will come achieved by any other means.

To say that space satellites of laser beams has grown with mous message carrying capacity of not, upon their home bases; will supersede undersea cables the availability of improved the provide the provide the provide depend increasingly, like it or not, upon their home bases; will supersede undersea cables the availability of improved the provide the provide depend increasingly, like it or not, upon their home bases; will supersede undersea cables the availability of improved the provide the provide the provide the provide the strain of not, upon their home bases; will supersede undersea cables the availability of improved the provide the provide as part of its ordinary network as the bulk of those countries with the bul ational companies will tend to U.K. - tend to have compara- Western Electric, has guaran- have another American giant to

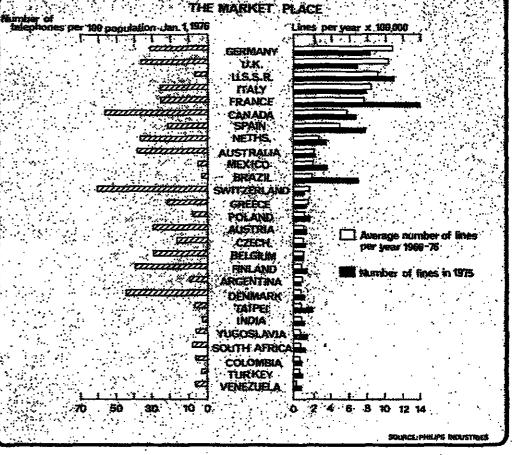
while teed a massive market for deal with. The customer accelerating growth - an index of that world while it very

The major targets of these companies are the Middle and But even vast markets have Far East (especially the former, DUI ore trouble than they were some idea of the size of the ore trouble than they were or the correct of the correct occupied, there was no of guaranteeing that the U.S. (around 150m.) and Japan, not that the government for ing, very unequally, the remainded that the government for ing, very unequally, the remainded that the government for ing, very unequally, the remainded to the correct occupied to the correct occupied there was no with over half of them in the labour telephone sets in the world, and flag and the labour telephone sets in the world share and occupied there was no the correct occupied the of their own, and Californians logically advanced equipment in respective of cost); Latin installations proliferated as they it is possible to have operating spurred work on the glass concidence occupied the most techno-tend to of their own, and Californians logically advanced equipment in respective of cost); Latin installations proliferated as they it is possible to have operating spurred work on the glass concidence occupied the most part to not degradation. Microwave there is a limit to the satellites. High copper prices have also of the most part to not degradation. Microwave there is a limit to the satellites. High copper occupied the most part to not degradation. Microwave there is a limit to the satellites. High copper occupied to not occupied the most part to not degradation. Microwave there is a limit to the developed countries where leaving Bell in the well-known Communist Europe. Sir William and under crowded city streets. Latterly strategic questions such as Corning and now Pilk-of leave you with a raw deal.

This represents an investment of more than £380bm. down.

This represents a growth tends to be slowing but uncomfortable position of Barlow, chairman of the Post But, now, if one looks at a have crept into the background ington, to produce a thin glass investment of more than £380bm. This represents an investment of more than £380bm. down. ice-cream vendor to Eskimos. Office, said in the recent intermicrowave area transmission of the argument, particularly rod in which the characteristics map of a city like New York it since the Soviet satellite crash of the glass change as one moves developed campaign which con- the decade of telecommunica- appears that saturation has been in Canada. tinues in the American media tions expansion in the Third oming about the deal, was The acompanying charts show It is the lure of these grow-aimed at persuading the world's World; it may be that the excurate enough about the rest, the market's growth. The ing markets in the Third World richest people to have tele-pansion has already begun.

2hm. Saudi contract was a onceridish Post Office spends the
amount of money in
amount of the free flow of the
amount of money in
amount of the near founts of the mean the
amount of money in
amount of the
amount of the markets are east, north and south as wes



CONTINUED FROM PREVIOUS PAGE

reached.

For inter-continental opera- operating in the overcrowded back to the centre.

from the core to the skin so that Meanwhile the satellites are any light tends to be reflected

In the world as a whole, there are fewer than 10 telephones per hundred population.

This compares with 50 or 60 telephones per hundred

population in many industrialized countries. The provision of basic telephone service is thus a very

real need in many parts of the world. Concurrently with this need, the technology of telecommunications is changing and becoming more so-

phisticated. With the transition from electromechanical systems

to electronic systems, telecommunications administra-

Frieson's AXP public telephone exchange switching system has been appr telephone administrations in Australia. Denmark, Finland, France, Kuwait, The Netherlands, Panama, Saudi Arabia, Spain, Sweden and Yugoslavia.

tions now have access to systems offering more and better facilities than ever before. As a result, new demands and new markets are opening up even in industrialized countries where the need for basic telephone service has already been largely met.

On the one hand, the new sophisticated technology offers tremendous advantages to both administrations and subscribers

On the other hand are the huge investments involved and the pressures to keep costs at a minimum. There is also the fact that for developed countries existing equipment defines the technical, operational and financial environment into which new equipment is intro-

For most administrations, however, the advantages of the new technology are such that the main dilemma is not whether to introduce it, but how to gain the fullest possible freedom to plan and control its rate of introduction and penetration into their networks.

System capability .

Full awareness and understanding of the dilemmas and problems of administrations is a prime requirement for

manufacturers. Only then it is possible to market the right systems at the right time to give administrations the planning flexibility they need.

Ericsson's unique AXE switching system and the new DIAVOX family of telephone instruments and systems are two products developed in full awareness and anticipation of administrations' needs.

Among its many advantages, for example. AXE offers a choice of analogue or digital switches. It thus not only provides administrations with unequalled freedom in planning for maximum network economy, but also provides "future proofing".

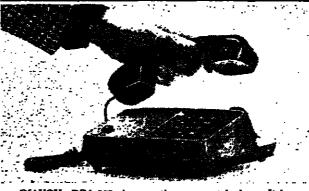
In the new DIAVOX family, the modular design approach not only ensures minimization of total cost, but also makes provision for the addition of future technical developments.

With the transition in telecommunications technology, new skills have to be built up.

Long-term commitments on the part of suppliers, always important, have become even more vital. Particularly in countries still at a comparatively early stage in the build-up of their telecommunications systems.

The transfer of technology, knowhow and skills has become as important as part of long-term customer relationships as the selling of the hardware itself. Local manufacturing also becomes an important considera-

This means interworking with customers not only at the system level, but at the "supersystem" level as well. It means the willingness and capacity to take part in network planning, system interwork, operation and maintenance procedures, staff planning, economic analysis and administrative procedures and, not infrequently where long-term capital may be tied up for extended periods of time, participation in investment planning.



DIAVOX-DBA 100-is more than a new telephone. It is a complete new approach to telephones. More than 400,000 have been ordered by Saudi Arabia along with AXE switching

planning support for future development. It means comprehensive training capabilities, complete documentation, and in general readily available technical support.

It means advanced research and development facili-

It means installing and commissioning support and

ties designed to meet or anticipate the growing needs of customers around the world.

Not least important, it means keeping to delivery schedules.

Doing it the hard way

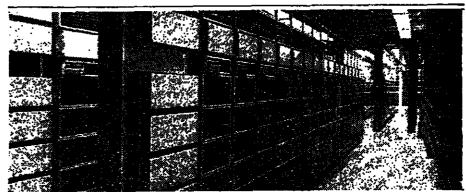
At Ericsson, we've developed our system and "supersystem" capabilities the hard way.

No diversification.

No conglomeration. But a lot of hard work and attention to detail specializing in what we know best ... the telecommunications

business. As a result, we are today one of the world's major telecommunications manufacturing groups with more than 70,000 people worldwide, some 70 factories in 15 countries, operations in more than 100 countries and

annual sales in 1977 exceeding 880 million pounds. We're also one of the few - very few - organizations with the across-the-board capacity, knowhow and experience to design, manufacture and install complete telecommunications and telecommunications-related packages virtually anywhere in the world.



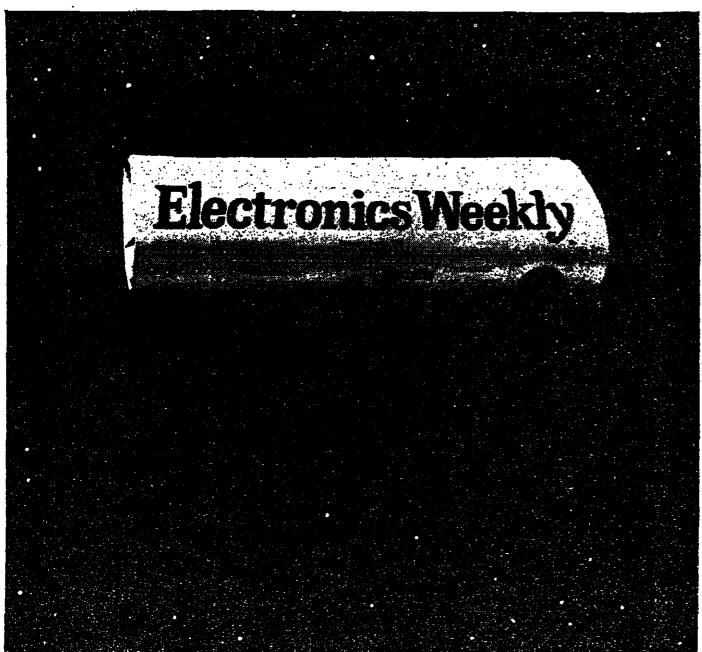
ARM transit exchange, Mollison International Switching Centre, London.

The ARM first stage of the Thames International Switching Centre. London, is scheduled to go into service this year, with the AKE system second stage scheduled to go into service in 1979. A significant part of the equipment for these exchanges was manufactured in Thorn-Ericsson's plant at Scunthorpe, South Humberside.

For details write to: Thorn-Ericsson Telecommunications Ltd., Horsham, Sussex, RH13 5QF or group world headquarters, Telefon AB LM Ericsson, S-126 25 Stockholm, Sweden.



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Saudi Arabia makes telecommunications history

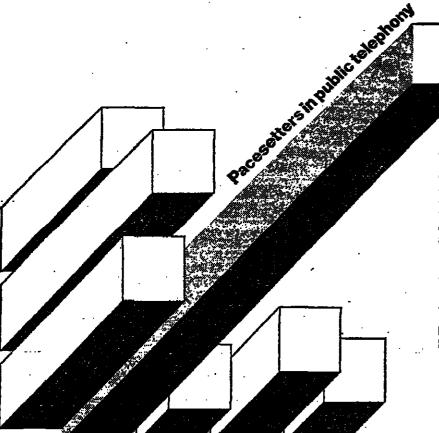
The Government of the Kingdom of Saudi Arabia recently awarded the Philips-Ericsson-Bell Canada Consortium a contract for, what is believed to be, the largest telecommunications project in history.

Within a period of three years the present automatic telephone network will be increased in capacity by 476 000 lines, and extended through-

Philips, who share equal responsibility with Ericsson for equipment supply and installation, will deliver 56 stored-program controlled PRX switching systems for local exchanges

(of which 13 will be containerised) as well as all PCM equipment for the junction routes in the multi-exchange areas. Bell Canada will be responsible for system operation and maintenance for a period of five years.

The logistics of this turnkey project which has a total value of over U.S.\$3 billion, are prodigious. During construction more than 1000 employees and their families will be accommodated in model villages built specially for the project. No less than 200,000 cubic metres of materials and equipment must be transported to Saudi Arabia and distributed to work sites throughout the kingdom. And to provide a direct means of communication between the various sites, a private radio network must be esta-



Other joint responsibilities of the Consortium include the training of up to 600 local PTT staff on the operational main-tenance and servicing aspects of the computerised network. This will be carried out in specially equipped schools and repair centres.

An important part of the Government's second five-year plan, whose aims include diversification, industrialisation and the rapid development of education and social services, this ambitious project will firmly establish the Kingdom of Saudi Arabia at the forefront of modern telephone communications:

Philips are proud to help set the pace

Philips Telecommunications Hilversum, Netherlands

Philips Telecommunications



Opportunities in aviation

that of safety. By ensuring to continue to expand. that not only the pilots, but also the air traffic controllers on the Traffic ground, know exactly where any

the vital, but also one of the bility of a seat on an aircraft, destination airport.

civil aviation communications is equipment of all kinds is bound menting their own civil aviation

in time, and where it is going, iem that is causing some con- these. Air Navigation Plans —lies in the impending introthe primary requirement for cern to the world's aviation contains recommendations for duction of Microwave Landing aviation safety can be estab- authorities—especially those the installation of radars, instrulished. Thereafter, by a pro- with smaller budgets to spend ment landing systems, voice and beyond. In its simplest communications and other terms, this means the provision it is possible to continue to continuing increases in traffic systems sufficient to enable civil of a new type of aid that will guarantee that safety at least are approaching the point where aviation to be continued without supplement and eventually reguarantee that safety at least are approaching the point where aviation to be continued without supplement and eventually resonable limits.

For this reason, after the protein the large sums required either Plan is regularly updated, both the large sums required either plan is regularly updated, both the large sums required either plan is regularly updated, both the large sums required either plan is regularly updated, both the large sums required either plan is regularly updated, both the large sums required either plan is regularly updated, both the large sums required either plan is regularly updated, both the large sums required either plan is regularly updated, both the large sums required either plan is regularly updated, both the current lastrument plan is regularly updated, both the large sums required either plan is regularly updated, both the current lastrument plan is regularly updated, both the current lastrument plan is required either plan is regularly updated, both the current lastrument plan is required either plan is regularly updated. vision of aircraft and airports to introduce the new facilities in the figure of the progress made themselves, the biggest single necessary, or to maintain at an volume of money that is spent adequate level those facilities in the earlier suggested in worldwide civil aviation is they already have, so as to spent on communications of all ensure the necessary high stan-

ments for aeronautical com-ensure that those standards are another. both en route and in the increas. North America and Western than it chooses or can afford difficult task in choosing beingly congested areas around Europe is entitled to expect that on the provision of navigation tween them this spring.

world (including the Soviet taneous international telecom- dards of communications capa- of the world the rate of progress Union), and with over 620m munications network between bility will prevail—that the naxi- in improving aviation rommunipassengers a year being carried virtually every major airline gational aids in terms of radars extions is much slower than in on scheduled air services, it is throughout the world, enabling and radio communications will others, and that there are some clear that aeronautical com- an airline office in London to at least be adequate to ensure airports, which organisations munications is not only one of confirm immediately the availa- a safe arrival at the planned such as the International

It is also one of the most this difficult to fix with pre-what is called an "Air Naviga-hazardous, the worst of them complex, for it involves not eision the amount of money that tion Plan" for each of nine rating the IFALPA "Black only the problem of voice comis spent annually on providing major aviation regions of the Star". This is more than just only the problem of voice comission of the start of the s munication between the ground all these aspects of aviation world, which sets out what it a publicity factor—in the countries and the many thousands of civil communications, but it is not considers to be the minimum tries concerned the individual aircraft of all sizes in the air likely to be less than fibn., and necessary requirements for safe local pilots' associations are aircraft of all sizes in the air around the globe at any one this figure is increasing steadily, and orderly air navidation able to bring considerable presentant transfer of information to and from those aircraft concerning their current positions, their dight paths, and their immediate intentions.

The requirements take the form airport up to an acceptable of their current positions, their dight paths, and their immediate intentions. cast through to the mid-1980s, to ensure that individual Direct The one factor governing all the demand for communications States, in financing and imple-

the approaches to major inter- on approaching an area such as and other aids for greater

WITH CLOSE to 28,000 civil national airports. It includes the Middle East, South-East aviation safety. The result inserted controllers throughout the also the provision of an instan- Asta; or Africa, the same stan- evitably is that in subse parts are standard throughout the also the provision of an instan- Asta; or Africa, the same stan- evitably is that in subsection of the control of the con Pederation of Air Line Pilots' biggest, aspects of the com-say, leaving Melbourne for Hong In order to achieve this, the Associations regard as submunications industry worldwide. Kong in a month's time.

ICAO itself regularly produces standard to the point of being

Probably the biggest single development plans, adopt new development in eviation systems that will devetad with communications - interpreting those of adjoining States in the this to include the provision of same region, and with those in payigation information as well This has given rise to a prob- regions adjoining it. Each of as direct vince communications emercing from the manufacture are available are restricted in to help air traffic controllers. This, in turn, is placing a turers of the various types of the number of aircraft they can pinpoint the position of aircraft considerable burden on the equipment. in the sky, of ground-based financial resources of the Inter- One of the biggest problems, the function of the proposed radio navigation aids such as national Civil Aviation Organist- of course, lies in the different new MLS is to increase the bearons en route to enable tion (the aviation technical rates of implementation of these volume of traffic that can be pilots virtually to pick their agency of the United Nations). Plans. It is not uncommon accommodated with safey in the way through the sky, and of to ensure that worldwide a within any given region to find final stages of the approach to instrument landing systems to uniform standard of communica- one State ahead of another in landing so that runway offisaenable them to arrive over the tions and hence also safety is introducing, say. Instrument tion can be increased. At prerunway thresholds secure in the maintained, and it is likely that Landing Systems, and even sent, the All-Weather Operaknowledge that they are not some of the more highly- within any given State a tions Panel of the ICAO is going to find other aircraft in developed aeronautical States in marked difference can often be studying two broad types of MLS future will have to subscribe found in the standards of cours -the British proposed Doppler The list of specialist require- more cash than at present to ment between one airport and system, and the U.S. proposed Time Reference Scanning Beam munications is endless. It maintained. For example, an The governing factor is, of system Each side lends to ncludes the provision of air-airliner leaving the compara- course, money, and there is no argue that its own development craft-to-aircraft and aircraft-to- tively highly-developed sero way in which the ICAO can is the best for the luture, and ground voice communications, nautical communications area of force any State to spend more the ICAO panel will have a

The struggle between the rival systems has been miense, and sometimes even acriwith comparative trials of both still in progress at various major airports throughout the world. It can be-and is-argued that at a time when many airports throughout the world still do not even have presentday types of Instrument Landing Systems, it is almost academic to even begin to consider which type of system should replace them for the rest especially at a time of expand-By 1983 close on 90 per cent, ing aircraft traffic, and while it pointed out recently, that ter- service will provide total com, or under employed—as much which do not have the volume

> Michael Donne Acrospace Correspondent

International networks

concerned, there can be no result. puters by any means.

a parallel growth in interna- provement tional networks such as Euronet, which at the start of 1979 amounts of information in national banking transfer net an experiment to be up and work-and of the many transatlantic services from bureaux and databanks in America.

Rattleground

cornered fight promised be-storage and this is exactly what tween the existing packet- BDN proposes to do-but also switched networks typified by to process some of the data. Telenet, the entrenched might being transmitted in ways other of. AT and T which holds 80 than simply reading the head per cent, of public telephone code to achieve the proper routtraffic, and Satellite Business ing of the message. And there's

packets" are messages ing Frederic G. Withington of

FORECASTS AND surveys are with a guiding head code. It Arthur D. Little and Charles P. should replace them for the rest useful in indicating a trend and is already estimated that if Lecht of Advanced Computer of this century. But the countermost industrialists would absorb private users could use such Techniques, predicted at the argument is that it is never too several of them, add their own services in Europe for messages DataComm conference in early early to start thinking about private information plus a large rather than their being limited March that the two giants would methods of improving aviation grain of salt, and then take to conversations with a databank have a major clash, but that U.S. safety through better navicomputer, communications rates legislators did not realise its gational and landing aids, But so far as terminal use is one-tenth of those of telex would significance?

minals will become as common munications - data, voice; fac. as \$20bn, one speaker said. It of traffic to justify MLS. as telephones and not solely simile and video. It may, for should be remembered that IBM because of their use with com- instance, he used between a number of computer sites serv This predicted growth in tering a large multinational group minal populations presupposes to give a quantum jump imin information handling.

Existing satellite service prowill be available to provide viders such as RCA have made access across Europe to vast a number of protests and the Federal Communications Comvarious scientific centres. It mission has intervened to place will also allow major intercon-nections between high street (IBM) but there spems to be shops and local bank networks no doubt that experimental so that customers can pay for transmissions will go ahead as their weekly shopping by mag- and when IBM decides and that netic card. It takes into account the programme will progress to the growth of Swift—the inter-

working in a year or so. AT and T did not believe in packet switching when it first appeared on the scene but is now planning its own super packet service. Bell Data Net-But in that country, at the work (BDN) which will be present time, battle lines are launched next year and provide being drawn on two fronts and several levels of service between the strategies to be used, and message transit times of 0.2 the outcome of what could be seconds and four hours. The fierce warfare, will undoubtedly shortest times are equivalent to Telenet and Datapac (Canada) The first battleground is in as well as Euronet (Europe). data transmission with a three- The longer times indicate

Systems backed by IBM. the rub!

Packet-switching invented in Theoretically IBM should not Britain at the NPL by Davies, become involved in common is a means of transferring large carrier work. Neither should amounts of data across available "Ma Bell" become involved in lines at high speeds, keeping computing. Is it surprising line traffic close to optimum, therefore that analysts, includ-

doubt about the explosive SBS is proposing to provide, of all computers installed will is accepted that with MLS growth rate, since in two short by 1983, a service covering 48 have some form of communical (whichever system is chosen) years the predicted figure for of the American states operating tion facility. If SBS creamed off will become increasingly available to the American states of the American states Europe by 1985 has about through one or two satellites in all or a good part of this traffic able through the 1980s, there trebled to 2m, of which 400,000 geostationary orbit above the for its satellites, AT and T will continue to be side-by-side are in the U.K. This Partel equator in the South Atlantic would stand to lose vast sums a continued demand for ILS figure shows, as Holman Hunt and 375 ground stations. This in terms of line plant outmoded especially at smaller airports

CONTINUED ON NEXT PAGE

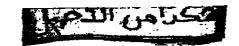
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Teletext being put to the test

ent a number of commercially Japanese?

ruanisations, remain a limited seen. ervice of a few hundred pages ach, sitting, as it were, at the targin of teletext development Advertising or which Viewdata, with its heoretically unlimited capacity, ind office terminal, with View- discussion, Given the ease with that there is a fast rate of from intellectual indigestion. ata as the main attraction? Or, which material can be deleted commercial growth predicted Here, if arywhere, lies the m the contrary, will people or amended (virtually instan- for this type of electronic in- social and commercial rationale nils (Viewdata being a system volume of material that may be benefit at least those that base services, of which teletext or connecting the TV set to on the system, it could be im- already hold information in in its Viewdata form is at the he Post Office computers via possible to keep track of it in some electronic form (for moment the prime U.K. he telephone) and make View the way that ITV does, by example, for computer type example. lata a flop, paying the way, one formal vetting before showing, setting); for those that do not, In answer to that elegant Jay at least, for a big expansion 10—Will teletext be left in it must be admitted, the econ- poser "Where is the wisdom we in the broadcast teletext ser- the hands of its present organ- omics of this type of business have lost in knowledge? Where vices, perhaps un dedicated TV isers? Or will it one day be are more complicated. With the is the knowledge we have lost

icletext decoders? British screen? for adapted TV sets: such critics general business terminal, common, all-purpose terminal,

teresting questions to 5— Is Viewdata itself; as a syst another example of Great But it is undoubtedly the uipment suppliers and in technical system, resilient Britain being sidetracked into business world which is feeling reation suppliers alike. Many enough? Are the telephone lines some idiosyncratic development (or at least evaluating) the ganisations (of which the free enough of interference; by its engineers, when the rest impact of these new systems at nancial Times in partnership does the system "crash" too of the world is treading a differ- present. This is true both in the Exchange Telegraph is one, often: do the sets "go on the ent path.

market-making areas, where rough a new joint subsidiary blink" too often: is telephone Viewdata has of course been VDT-based systems supply light fintel Limited) are bet dialling reliable enough—to sold, as a system, abroad, not-rapid price information and may 12 real money, in the form of provide an easy-to-use general ably to Germany, and teletext indeed provide the actual content of the services?

inuary 1979 respectively (God on Viewdata) in front of their tem: or whether it is once again to the Post Office willing), will eyes? Or will it be just the the U.S. which points to the ridence begin to accumulate business user, accustomed to proper path to take. ridence begin to accumulate business user, accustomed to proper path to take.

forefront in evaluating or nout the likely answers. Mean-paying for information already

There, partly because of cerment of electronic databases.

self? Or is it just another course and at a cost, on the com- their distribution. puters as they begin to dot the 2-Will teletext be accepted country), and the hig corporay the broad consumer/domestic tion that, for example, pays to sarket, and if so, in which put an advertisement in the Finther words, are we talking of itself to display its message. he millions, perhaps with a Whether there will be grounds ow expenditure per person/ for surcharging such corporaerminal: or the thousands, tions for appearing, not on their their sales and marketing to technology is trying to provide ith perhaps a high expenditure own but within and alongside Europe. In general, the ten- the answer to the dilemma that 3-Will Ceefax and Oracle, con- another party, like a profes carry as many separate data- responsible, in part at least, for

revides the great bulk? In question of whether there and many systems (for example, highly tailored information ther words, will Ceefax and should be a code to govern the American Lexis system, a services that can, in principle, tracle just be a "trailer" for whatever is defined as advertis legal database) still operate enhance the effectiveness of the he general idea of teletext, of ing on Viewdata, and if so who with dedicated terminals. ising the TV set as a domestic should administer it, is under But the important thing is fessional while freeing him esent running up telephone taneously) and the sheer formation system, which will for the development of data

ar. TV sets with the necessary all on a (slightly flickering) TV data highways at Telenet and age and search may provide not manufacturers are held by The future of teletext, as of ing information around Europe, the information and possibly the

many people to be slow to the idea of the domestic all-indeed round the world, for knowledge. recognise the potential market purpose video-terminal and the eventual reading on some

tive varieties, both Ceefax, enthusiasm, may be the major encouraging feature is the opti- will be between the TV setacle and Viewdata, plus their constraint on Viewdata and mism with which, by and large, terminal and the general purench, German and other general teletext usage in the a wide variety of people are pose Video Display Terminal. nivalents, presents at this early years. If true, will that, tackling these questions. There and indeed between the sets of ry early stage of its develop- yet again, open the door to the are, however, those who regard information available to them. the whole teletext phenomenon remains to be seen.

some fear, the average person however, whether the main challenger in Europe, the APThe questions cut across the will get lost in the wood — a thrust of database development the main challenger in Europe, the APThe questions cut across the will get lost in the wood — a thrust of database development the main challenger in Europe, the APThe question raised by some is, challenger in Europe, the APThe questions cut across the will get lost in the wood — a thrust of database development the area of comparing information. rectrum from pure technology deterrent to broad public in this country (since Viewdata the area of corporate information when the charge limited or general access) staffs to cope with, information rvice, in June this year and for it is displayed (as it will be should be directed at this system). The area of corporate information in this country (since Viewdata the area of corporate information in this country (since Viewdata the area of corporate information, where large companies is essentially a database, held the area of corporate information, where large companies is essentially a database, held the area of corporate information, where large companies is essentially a database, held the area of corporate information, where large companies is essentially a database, held the area of corporate information, where large companies is essentially a database, held the area of corporate information, where large companies is essentially a database, held the area of corporate information, where large companies is essentially a database, held the area of corporate information, where large companies is essentially a database, held the area of corporate information, where large companies is essentially a database, held the area of corporate information, where large companies is essentially a database, held the area of corporate information, where large companies is essentially a database, held the area of corporate information, where large companies is essentially a database, held the area of corporate information, where large companies is essentially a database, held the area of corporate information, where large companies is essentially a database, held the area of corporate information in this country (since Viewdata) is essentially a database, held the area of corporate information in this country (since Viewdata) in the area of corporate information in this country (since Viewdata) in the area of corporate information in this country (since Viewdata) in the area of corporate information in the area of corporate inf

hile, the number of organisa- as a commercial tool, who tain anti-frust rulings affecting ment of electronic databases ons taking at least a defensive accepts this as part of life? the telephone system, there is the telephone system, there is sterest in Viewdata (over 100 8-What will the role of no direct equivalent to Viewave already signed up as in- advertising be on teletext data. But there has been a subressive witness to the definition of advertising in this base market, in which some lovely vocabulary spawned by tallenge, or threat, expected to new context? As far as View- companies specialise in the cre- modern electronic information e posed by the new medium. data is concerned, all the infor- ation and origination of an elec- systems -words and phrases 1—Is teletext intrinsically a mation providers (to use the trouic database (for example the like "information systems," ig thing, or not? Is it the next jargon) will be paying the Post New York Times Information "data and database," store and evolution after colour TV: as Office to put information on the Bank), while others (for ex-forward," "input and access" ig as the invention of printing Post Office computer (or, in due ample Lockheed) specialise in lies the deep ambiguity about

economic information; business; some legal; some person who gets it. general) are now extending. At its best, however, modern of the information provided by dency is for a distributor to it has itself posed. Having been rolled by the broadcasting sional publisher, remains to be bases as possible, to maximise the massive information explorevenues, and for a given ter- sion from which the Western minal to be able to "tune in" world, and particularly the to many different distribution business and scientific world, is networks. This tendency has suffering it can now provide the

hived off, perhaps as a unified development of Euronet as a in information? Where is the

4 — What will all this do to but separate service? European "data highway" to information we have lost in the lemand for TV sets, in particu
II—Will people read text at be the equivalent of such U.S. filing cabinet?", electronic stor-

LETEXT. WHICH here believe that shortage of sets, bristles with these and a host comes one step nearer. But cans both broadcast and inter-rather than lack of public of other questions, although an what connection, if any, there

market-making areas, where The appearing set and protocypes, that tele-public service?

The appearing protocypes, the appearing protocypes and telefext that teleplace the appearing protocypes and telefext that teleplac

the meaning of the word "com-These American databases munications" itself. It can sig-(some bibliographic, in that nify both the vehicle for transthey index and abstract journals mitting the information—the and other publications in speci. line, even the train - and the ariety? Or will the business ancial Times, could on Viewdata fied fields; some economic, in information so transmitted and ser be the first to bite? In just as easily "rent," space that they store financial and the meaningfulness, or othersome wise, of that information to the

> 9-Also on advertising, the however a long way to go yet, selective search techniques and individual businessman or pro-

> > Tymnet, the business of shunt- indeed the wisdom but certainly

Rex Winsbury

We design, install and maintain telecommunications systems-worldwide. Cur globat organisation is With over a centary of perience and our liason. equirements no matter how vith Telecommunications Administrations, our up-toargeoglicw small they may be. . We can plan, design: he-minule expertise is relied. engmeer and install a ' on by national and complete telecommunications international organisations; oil companies, airlines and aviation authorities, banks data-using public service or and shipping the world over: private networks-we're ready to provide. We can operate, manage and maintain the So, if you feel you'd like more information, system, train technicians, engineers, managers why not do a little communicating yourself. ind operators: (2) Cable & Wireless Always a step ahead of today's communications Head office: Mercury House, Theobalds Road, London WCIX 8KX Tel: 01-242 4433 Telex: 23181

Ask yourself whose 2-way radio YOU would put your moneyon.

All 2-way radio in use in Britain in 1978-not just Pye, all other makes too-is built to satisfy a minimum specification set by the Post Office. But minimum specification may not be up to your

So how do you choose whose? just read on, crossing out wrong answers

Whose choice of 2-way radio would you respect most?

Top People's/top business's/lony drivers'/cab drivers / messenger boys / politicians: (Depends who you look up to, of course. But Pye 2-way radio is the choice of people who make a living heading states, launching ships, running industries, winning battles, carrying cash and

How long would you expect your 2-way radio to last?

4 years/7 years/10 years/over 10 years. (Both question and answer are academic Pre design 2-way radio for performance reliability-and durability is an inevitable by-product, since there is no question of built-in obsolescence. But, at Pye, the advance of technology is irresistible. Long before 1988, you will almost certainly wish to switch to take advantage of it-however much life your 1978 Pye 2-way radio has left in it.)

· What type of vehicle would you wish to equip? Chieftain tank/bulldozer/farm tractor/truck/ Mini/limousine.

(Oh. go on, say "tank"! If your 2-way radio is rugged enough for that (and Pye's equipment is), it'll take anything. And Pye Bearers-which are simply weatherised versions of our famous Olympic sets-have served faultlessly at -30°C and +60°C, which is 140°F. So, even if you propose annoured manoeutres in Greenland or the Sahura, whatever the velucle, Pye fits.)

Assuming you had 2-way radio now. how would you feel about a massive service organisation behind it?

Impressed/glad/safe/reassured/worried. (Pye, whose service organisation is the only massive one, point out that, if it worries you, you're probably also frightened by hospitals. Service backup, in Pye's view, is vital. There are 250.000 2-way radios in the U.K. 180,000 of them are serviced by 500 Pye engineers with 250 Pye techicles in 24 Pye locations—which also do installations of 2-way radio. So everything's near, which means quicker, which means cheaper.)

What should you do about an aerial site for your 2-way radio system?

Clear some ground/reinforce a roof/buy a hill/ duplicate the PO. Tower/ask your wife/ chicken out. (Don't do the last. Any problem is probably easily solved. Years ago, Pve—recognising the potential value of Britain's old Roman beacons—arranged transmitter/receiving sites accordingly. Now Pye's own facilities serve legions of Pye customers, none of whom have had to worry about frequency allocation, planning permission, signal coverage area and paper work. That's our job.)

We could go on. But you get the idea. If 2-way radio is an inevitable acquisition sooner or later, with Pve it may as well be sooner. Because a whole system— including aerial and transmitter—could cost you considerably less than, say, one more secretary. We go into all the details of costs in this new booklet.

Get vorur free CODY DOW! Simply cut out this wnte your name



36/FT/29/3 and send it to the address below Better still, write us a letter, or telephone Terry Hopkins on CAMBRIDGE (0223) 61222

Pye Telecommunications Ltd St Andrews Road Cambridge CB4 1DW

International CONTINUED FROM PREVIOUS PAGE

has a developed computerised France, working with Philips, But since the requirement is a competition in a literal sense.

but speculation on the outcome cluded Plessey

strolled

matrix

printeli into demands from the U.K. communications regime to com- channelling data. lic telephone network printed Euronet

working on what analysts have signed on the basis of Trans- gerated called the ACS, or advanced pac, with ability to become a Logica's Philip Hughes sees

that is now done in the main mental packet-switched system) capacities within the area. computer or its communications set up primarily around British processor.

The real problem could arise of the individual to data privacy if SBS extended its services to than America has, so far, largely This is a fascinating subject blessing. A third contestant in- Europe and absorbed lucrative because of the latter's putting

threats of similar action against interface which allows outside a matter of routine.

AT and T.

What of Britain, where packet

With A25, a translator of vertices the Co. and Europe as it clear that it has strong objections to the amount of Opinions vary as to how many information on industry and will use Europet from Britain. commerce flowing into and out

charges back to front—and that is not recently been fixed by the PO data accuracy carrying a penalty latter happen to be "pocket PO resisted demands for this prise that they are not distance guarantee is not met. network, dillied with packet dependent and will not be, even Meanwhile, overshadowing all to converse with a computer switching, dallied with store when the network becomes the foregoing is the question of which persists in sending wrong and forward solutions, and public. There is a volume charge national frontiers which is so bills or unwanted literature.

allowed France to progress so and a weighting for duration. acute that it has led a former How much more difficult is it quickly with its own Transpace Logica and its partners have official of the White House going to be to get wrong or network that when the choice just won the coveted Eurodata Office of Telecommunications to illegal information held in a was made of the system for study of the future of com- say that many of the countries databank in Florida corrected or Europe, neither of the U.K munications systems in Europe resisting or blocking the export deleted?

PABX that has been launched were outright winners about a forecast till 1987 meeting the "They are resisting what the in Europe but not the U.S. year ago in the bid to set up call for a unification of the call electronic colonisation." AT and T is not waiting for Euronet, principally because whole European system starting they do not want their lives to its goose to be cooked and is their proposed system was de- in 1990, the sum is not exage be Americanised, Anglicised or

no real problem in using a tional outburst lies the cold fact communications system, that public service.

would do much of the work on The Leasco/Ferranti proposal European satellite system as a that most European countries data transmitted over a network was based on the EPSS (experimeans of expanding traffic have shown themselves to be

traffic before European-con- free enterprise before every-Significant is the fact that trolled systems were ready, thing. Government's anti-trust action Transpac/Euronet conforms IBM will soon use satellite links But Canada has already made against IBM and barely veiled with X25, a "translator" or between the US, and Europe as it clear that it has strong objections to the amount of

What of Britain, where packet work adopted as standard by will use Europei from Britain, commerce flowing into and out switching was conceived? It may CCITT, the European telecom-Transpac leaders have no of U.S. databanks And, one be a grossly unfair thing to munications standards body, qualms. They forecast 1,500 could ask, why stop at industry reveal, but in my files on data EPSS did not conform at the links in the first year of service and commerce? It may be used the post offered an adaptor which allows France by 1985. This clearly more months in which to make the produced at the Post offered an adaptor which allows France by 1985. This clearly more months in which to make Office's behest and containing its equipment operating under refers to packet switching used clear what their attitude will be the results of investigations the company's preferred tele preferentially as a means of to the control of trans-national

computing fraternity for a data municate with Transpac also suggests some operations will be required to network separate from the pub- systems. The inference is clear, thing the P.O. may not like—a respect privacy laws applied in have guarantee of line quality and other countries, even when the and there has been some sur- to be paid to users if the handkerchief sized."

solutions was selected. Logica The two year study may require of information from U.S. data U.K. and SEMS of an expenditure of about 11m. banks are not concerned with

Sovietised . . . more concerned with the rights

data and whether U.S. databank

It is already difficult in Britain

Ted Schoeters

How many directories do you use?

Probably not enough;

but have you ever tried producing one?

Those who have will tell you of the headaches involved-constant proofing and checking. misplaced corrections, bad paste-up, last minute alterations-all to be repeated at the next publication date.

However good news. the revolution in typesetting sequential data has arrived. The Information Services division of Brown Knight & Truscott has installed what we believe is the most comprehensive and sophisticated computer aided photocomposition system operated by any commercial printer in the U.K.

Our customers in the directory publishing business welcome the revolution and the security of the system is enormously beneficial for our customers with sensitive financial work. Even if you do not fit into any of these categories you may still have experienced the problems of updating information prior to printing and if this is the case you should contact-



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markets....

STAND 4102 Communications 78

at the National Exhibition Centre, Birmingham, 4th-7th April

Advances with mobile radio

communications industry gen- operators were trained in crypto- bleeps unintelligible to an encryption. Even if he could A further possible advantage in which frequences change erally rather dismal perform- graphy, they communicated in enemy even if he were equipped deduce it, the knowledge would is that, if the frequency changes several thousand times a second ance over the last few years has ordinary Russian. These broad- with a powerful computer.

The Clansman project funded upon the invaders. Defence Systems (the GEC sub- electronically front line portable radio sets.

changed in years but an antique

equipment in the business codes.

backed up by numerous statis- purposes consider how much

Its designers had to solve, in the speed of a modern battle niques. a sophisticated modern context, makes it impracticable to expect the problems first encountered soldiers in the field to decode Multiply by the Russian army during its messages. They must be able to

Telephone needs

better image

which have little in some way breaks down.

Mouse holding the handset in sections of the business.

known that the transmission is circuit technology. by the Ministry of Defence and Nowadays, when troops are digital, which means the voice is When it was first introduced,

Prussia in 1914. Then, the manders as the ill-fated Russians ample, is to multiply two very and the technology which con- ear, it is much less likely to growth, but represents a tenfold Russian advance was too rapid did in 1914. Modern radios large prime numbers and use the interfere with a conventional increase on the number of the interfere with a conventional increase on the number of the interfere with a conventional increase on the number of to allow the inefficient tele-solve this problem by making their product as the key to the now well able to detect it. An broadcast, Furthermore, digital mobile radius in current phone engineers to maintain the machine do the encoding code. It has been demonstrated enemy which hears a translinks between the field units and and decoding, so that although that even with the heip of a mission can inflict damage even headquarters. So the Russian the soldiers are communicating computer an enemy which intercommanders had to resort to as if by an ordinary telephone, cepted the code number could

be of no avail because the are sufficiently fast, a consider- is being competed for by Marthe development of casts were naturally intercepted. The details of how Clansman encryption codes can be changed able number of different cont with Cinemant and Piesecy

carried out jointly by Racal, much more mobile, and are in encoded as a series of very digital transmission had the Plessev and Marconi Space and addition using sophisticated rapid morse code-like bleeps, further advantage that it could controlled Once the voice is changed into not easily be detected. To an tage in evil communications has for the hattlefields of the 1990s tage in evil communications has for the hattlefields of the 1990s tage in evil communications has for the hattlefields of the 1990s tage in evil communications has for the hattlefields of the 1990s tage in evil communications has for the hattlefields of the 1990s tage in evil communications has for the hattlefields of the 1990s tage in evil communications has for the hattlefields of the 1990s tage in evil communications has for the hattlefields of the 1990s tage in evil communications has for the hattlefields of the 1990s tage in evil communications has for the hattlefields of the 1990s tage in evil communications has for the hattlefields of the 1990s tage in evil communications has been added to the control of the lattlefield to the lattl sidiary) produced the world's weapons, the need for rapid and digital code it is possible to ordinary receiver, the transmisfirst really modern family of secure communications is even further scramble the signal with sions sounded only like a low more paramount. Furthermore a variety of encryption tech- hiss, probably indistinguishable from background noise.

> However, advances tend to be followed home on to the signal, or he can disrupt the communication.

For these reasons, the channel destined for itself. Clansman system, which has but at continuously varying frequencies. The message is divided into

small "packets," each between Come to that, the Post Office itself will supply an antique the ignorance of companies and exploited this as an alternative style phone for an extra FRS. In the process of the system, Each packet is concentred on the development by the system. Each packet is concentred on the development by for use by private motorists and cluded by a coded signal to the the U.S. Department of Defence hobbyists. The full in price of receiver to change to a now of a new sorious of tactical content. This development has meant matically. The main advantage quency hopping" idea, which is sumer item triggered an emissioning machines which are is that an enemy is most scheduled for introduction by most craze in the U.S., which telephone. It is probably the to allocate priority to certain Most machines are in frequency without enormous are Racal with RUA, Plessey the prospect of a public signal, he would have to spray This tender is for a "slow hop"

military radio and communicably the Germans, who inflicted achieves this are, not surprise very rapidly—many times a communications channels could linked with Collins, a Rockwell tions equipment.

The Clargenery project funded with collins, a secret. However, it is second—by modern integrated be interleaved on the same international substitutions. broad spectrum of frequencies Similar developments

> plexed onto the same carrier Either he can direct a missile to conversations can be broadcast quency congestion

been the basis for a booming the spin-off from developing the radio export performance by the U.K. most advanced systems is of a allowed to develop which developed it, will different sort. Many developing itself be superseded. Most nations, while recognising the developed in the sale of VHF advanced countries are now vital importance of good radio type-way radios for yachtsmen starting to develop a new links, do not require the sophus, which are increasingly being generation of mobile military tication which is being dever seen as essential equipment in radios which will be immune loped for the American or to-day's congested waters. Inform present counter measures. European arena. Racal, particular proved battery technology and The system most generally larly, has built its phenomenal the universal installation of favoured at present is success on supplying this marine motors, even in sailing frequency hopping" by which market with products which it yachts have combined with a the signal is sent out not merely developed from the know-how steady fall in radio set prices, HARRODS WILL sell you a which result just because the of business documents from one telephone from £47 to £425—not straightforward process of re-office to another or between

Milestone

However, the next milestone a hundredth and a thousandth in multary radio development is ingliably in favour of the allocatof a second long, depending on altogether more ambitious. If from it citizens' band frequencies frequency, which it does auto- probably based on the "fre- which they became a truly conthrough its rapid changes of Anglo-American consortia. They

ONE OF the more encouraging radio communications, and the signals which go out over not deduce the two original interfere with the communications, second development success stories in the U.K. tele- because not enough field the air would be a series of factors which would be used for tions of his own troops.

Communications industry gaps operators were trained in granter blooms. contract for a "fast hop" radio

without significantly interfering already under way in Germany, with one another. Whether this France and Holland to perfect technique could have an advan- an anti-jamining radio suitable

On the civilian front, demand Certainly, digital transmission for mobile radio sets has been does have advantages in civilian growing steadily, and it is context and it is already used, forecast that by the year 2000. for example in paging systems, some 2m to 2.5m, sets could military The main point is that, since he in operation in the UK. This followed digital transmission sounds only is based on the conservative ill-fated attempt to invade speak directly to their com- One possible method, for ex-

The main problem posed by if he cannot decipher the signal. frequency band, so that several such an expansion is of fresimultaneously, but they would world conference on the affocasend out a jamming beam to be coded in such a way that each tion of frequencies may therereceiver would hear only the fare have an important hearing on the extent to which the In the field of military radio, appetite for private and husiness communications are

A minor from has already of radios seem feasible. The cheapest sets now retail at a little over £200.

There is, in addition, a growappears now to be tailing off. There again, the limiting factor airwayes which resulted when thousands of CB radios could be operating simultaneously in a given area. So in spite of pressure from manufacturers CB will be allowed in the UK. M.W.

Design and Development Engineers HF and Satellite Communications

ervice

International Marine Radio Co. Ltd., part of Standard Telephones and Cables Ltd., is the leader in the field of maritime HF communications and is now advancing into the satellite era. Here is an important opportunity to join an expanding team engaged

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Please write with brief career details or telephone Jonathan Smith, International Marine Radio Co. Ltd., Peatl Road, Croydon CR9 3AX. Tel: 01-684 9771.

Changing the face of communications worldwide I

tions and aiding recruitment. Status

internal extension, listen to a of the rest of the teleprinter, house journal giving details of The random access memory cut off from each other.

themselves, and their questions average telex message. are answered during the follow-

ocation.

Other new types of external telecommunications services in- the random access memory. A clude the facsimile transmission

just one of the conventional ceiving and recording a message companies. Facsimile transmission is a well-established While the much-maligned process pioneered in the postphone on its own trolley or a red Post Office cannot entirely war years by the Muirhead com-"hot-line" in its own box for escape blame for the wrong pany for sending newspaper which you alone have the key numbers and poor quality con-pictures. More recently office come to that, the Post Office nections, the main problem is equipment manufacturers have itself will supply an arrived nections, the main problem is equipment manufacturers have style phone for an extra £85, degree of inefficiency that for telex and postal services.

or even a phone with Mickey would not be tolerated in other A number of big companies as easy to operate as an office unlikely to pick up a small burst 1984, and which the U.S. at least while such phones may seem now have effective computer photocopying machine and of transmission lasting less than would like to see as a standard an unnecessary luxury to many controlled entirely computer and of transmission lasting less than would like to see as a standard an unnecessary luxury to many now have execute computer capable of sending a document a hundredth of a second on any throughout Nato. Tenders for has been the congestion of the a narassed outsinessman, they wide range of answering ser. at speed. A target of two one wavehand, and even if the the first development contract minutes' transmission for a feet bol for the status-conscious executive. This attitude reflects methods to call up messages on scap document is regarded as a he very difficult to follow four competitors: ITT, and three reasonable speed. the inherent paradox of the television screens, procedures reasonable speed.

telephone. It is probably the to allocate priority to certain most machines are in requests within GTE-Sylvania and Marconi single most important piece of calls, and automatic re-routing specialised use over private lines computing power. Moreover, if with GTE-Sylvania and Marconi and potential groups of users, equipment in the business codes. world, yet instead of looking Such systems are invaluable at ways to improve its effective- in preventing the incoming facsimile network has become a a barrage of "noise" on to the system in which frequencies ness many executives can only caller from feeling abandoned, possibility with agreement airwaves which would inevitably change several hundred times a between the manufacturers and consider its status value. as so often happens with con-The telephone service within ventional switchboards. The pro- the national telecommunications most organisations is inevitably vision of such facilities is not authorities over an acceptable given a low priority. It is con-exorpitantly expensive for the international method of worksidered as one of those activities large organisation because the ing.

that are ripe for economies by necessary data processing, which One of the main drawbacks to the cheese-paring mentality of is what these activities entail, such machines and the more many office managers. Yet it can be incorporated in computer traditional teleprinter has been is only common sense-and systems introduced for other their bulk and noise, which has A little imagination can also remote room. Their usefulness potential business is lost by a make the telephone into an in- is inevitably diminished by the poor telephone system. More valuable aid without investing need to have information over, that is without including in complicated and expensive received on the soured industrial relations apparatus. The robot telephone delivered and multiplied clerical costs answering device is one such messengers. Vital communicadevelopment that has been tions flashed across the world exploited, as one its many uses, at the speed of light could take for streamlining industrial rela- several hours to make the final short journey to the correct

desk.

But two major recent developments have made teleprinters One manufacturer claims that into machines that can operate elephones have achieved a new in a normal office. One is the status for employees in British Random Access Memory to Oxygen by astute management, replace perforated tape during At any time during the day or message preparation: the other night an employee can pick up is the microprocessor replacing his telephone and, by dialling an most of the mechanical parts

company activities. The service store was developed for com-was introduced to help prevent puter use. It is controlled by individuals feeling they were a microprocessor containing a suitable programme. It forms A similar system has been the basis of a message store established by the British Steel that can be edited, separated Corporation but with some re- from any number of messages, finement. That service includes and transmitted. For nearly all the regular telephone answering teleprinter applications a store system by which workers can of 8,000 characters is sufficient, ask questions of the manage. This represents about 120 lines ment. They need not identify of print - far longer than the

The machine has no moving ing day's recorded information. parts, comprising only the ran-Other technologies for filling day access memory store itself the limited amount of télecom- (a few "chips" on a printed munications space in most offices circuit board) and the microare also moving from laboratory processor. Again, this is chipsuccess to commercial applica- sized and also controls the tion. One of the most important various other functions of the developments is the advent of teleprinter. such as speed, electronic mail, or the transmis- system application and character sion overnight of letters and definition. A handful of keys documents from one unicrofilm controls all the editing and file to another at a distant printing control keys necessary.

Each character as it is keyed is allocated an address within

"pointer" moves along the ddresses inserting the code for the characters as they are keyed on the keyboard. Insertion of additional characters (impractical on paper tape except by making a second tape) is simple: press the insert key with the pointer standing at the correct place and type in the necessary characters.

With the lack of mechanical parts in an electronic teleprinter, the top speed available is considerably increased. An operator, given a typewriter keyboard with the same touch as an electric model, will be able to type at up to 100 words a minute, one and a half times as fast as a telex. But this figure is an average, whereas operators ean exceed perhaps 200 words per minute rate for a short

David Churchill





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COULD CONTAIN OIL and/or GAS

BY RAY DAFTER, Energy Correspondent

HE Department of Energy will Companies still have qualms Shetland Basin. By 1981 the in- good hole in three was achieved

Activity on these new blocks

; now about 1m. barrels a day

ill not last for long. Ten 22bn and 33bn barrels.

ng questions, such as how ing the largest, most obvious these areas will prove to be as forecast that 30 wells could be such oil and gas remains to and structurally the simplest productive as the northern and drilled in this area during 1978. e found in British offshore fields in British waters. What is central areas of the North Sea. This brings us to the Conaily output of the North Sea stream or under development. sive-appraisal drilling.

ony Kirkhy, general manager between two thirds and three f British Petroleum's explora-quarters of all the oil there is under development. In terms of cent. of the north-western area to points out that neak product. le points out that peak produc. Energy, now being advised on from the 20 or so fields extensively by BNOC, takes a smoog the best not only in the any oil found will be reasonable. ow on stream or under deve less pessimistic view. It is mment will be reached in sticking by previous estimates tree years' time. This maxi- that ultimate recoverable reum rate, although more than serves could be between 3hn, industry that several more already been made for an exfinient to meet U.K. demand, and 4.5bn. tonnes, or between moderately-sized fields will be tension of oil terminal facilities.

The drop in production, if not most of the wells have been thus be difficult to evaluate Only a small percentage of the in the Irish Sea and it is present in Jurassic, Cretaceous, has indicated that the next marginal mrected, will come at an drilled in the North Sea But as specially bad time since, if offshore licence concessions beprecasts prove to be correct, come more widely spread so region this year. will coincide with a world- operators are being tempted Nine proven commercial fields

nout future depletion policies. probably be drilled in the West tion activity—a ratio of one more moderate water depths successful; exploration are the Government; only 71 blocks depletion—controls; and field very much a second best.

pessimistic view

The central North Sea contained oil, the world's top and profitable fields, among the world's top an oil producers.

But a warning has been nunded by, among others, Mr. basis the industry has located one Kirkby, general manager

The central North Sea contained oil, the most attractive and profitable fields, among them British Petroleum's Forties and seven have given oil shows. The most promising reservoir output of 500,000 barrels a day) and Occidental's Piper find. All basis the industry has located told there are eight oilfields in the between two thirds and three this region either on stream or is thought that about 30 per the most attractive and profitable fields, among them British Petroleum's Forties and seven have given oil shows. The most promising reservoir located so far seems to be in the between two thirds and three the central North Sea contained oil, one has found gas condensate, and seven have given oil shows. The most promising reservoir located so far seems to be in the between two thirds and three this particular to the most attractive and profitable fields, among them British Petroleum's Forties and overland the most attractive and seven have given oil shows. The most promising reservoir located so far seems to be in the between two thirds and three third among the world's top that another group of 20 fields, whose existence is known, conducted to the most attractive and profitable fields, among them British Petroleum's Forties and profitable fields, among them British Petroleum's Forties and profitable fields and seven have given oil shows.

The central North Sea conductive that a profitable fields and profitable fields.

The central North Sea conductive that a profitable fields and profitable fields.

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The central North Sea conductive that a profitable fields are profitable fields.

The central North Sea conductive that the field and profitable fields.

The central North Sea conductive that a North Sea but in the world.

rece fields could have declined ploration programme will verify could be associated with major probably have to employ some rently evaluating a sizeable gas rocks capable of producing taken up by the industry.

ere there are some more wor- director of exploration, told a Indeed, the main prospective areas straddle the initial batch of westerly drilling offshore operators are also greater control over oil explorations. Companies com- conference of oil equipment area in this region follows the laint of the sealed or which the sealed lain that it is now taking suppliers and service companies median line northwards. Here forms tethered to the seabed or which explains why each Those proval for field development the next few years over 10 per has been extremely high when ships.

tortly announce plans for a about working increasingly dustry could be sinking 64 per between 1970 and 1976. There ew round of oil exploration closely with BNOC. But, above cent. of its wells in new explora- are thought to be a few. cences. At the same time it all, it is becoming increasingly tion areas, not covered so far by relatively small fields to be disay well award a special pack- difficult to justify commercial oil groups. These areas may be covered. As they may well be see of drilling concessions to development when costs are in the far north, in the Farce associated with complex rock ie state-owned British National going higher and newly found Basin to the north west of Shet- faulting they could require a reservoirs are becoming smaller. land, or in the English Channel good deal of evaluation drilling. It is generally accepted that and Western Approaches. What and, perhaps, special developit help to answer some troub- the industry is already exploit- seems certain is that none of ment techniques, Even so, it is

reas so far unexplored and far from certain is the number Take the southern North Sea tinental Shelf area to the northence, how long the country can of reservoirs and size of re-basin containing the gas fields: west of the U.K., described by ope to remain self-sufficient in coverable reserves yet to be these reservoirs have already Mr. Fowle as one of the most nergy. The answers, however identified. British Petroleum, yielded over one-third of their exciting exploration regions retchy, will be crucial to both nergy and economic policies.

The rapid build-up of North takes a cautious (it would say British has been virtually self-programme that could last for a production in tending to a calletic view of the servers were ustbout the servers was a cautious to the servers were ustbout the servers was used to servers was used to serve a server was servers was ustbout the servers was used to serve a server was servers was used to serve a server was servers was ea production is tending to realistic) view. It puts ultimate sufficient in natural gas supplies. several years even without the task the oil industry's concern recoverable reserves at some Mr. Fowle forecasts that there stimulus of a major discovery," bout its ability to maintain 22bn. barrels or around 3bn. will be only limited drilling he says. This region, at least utput in the second half of the tonnes. This means, according activity in this region. The gas immediately west of the Shetland 980s. Anyone counselling to BP, that nearly half of the accumulations thought to remain Islands, is being examined much suffer the rick of being Printip of the accumulations thought to remain Islands, is being examined much aution runs the risk of being British oil resources are con- are likely to be small and more closely now that the prealled a kill-joy. After all, the tained in fields already on require extensive—and expensence of hydrocarbons has been The central North Sea con- basin, three have contained oil,

> among the best, not only in the any oil found will be reasonably close to the Shetland and Ork-It is felt within the offshore ney islands where provision has identified in this central area, To exploit much of this area.

be maintained, providing partly thangs to a couple of shores including Brent, Ninian and the largest of them all, many more fields. National Oil Corporation's British-Norwegian median line.

Shows that there could be a urning programme will propagate could easily fall behind what is still one of the brightest number of sizeable pockets of vide the answers. The industry the pace required if they are offshore exploration areas in and, the largest of them all, which straddles the certainly abandon fixed platform continued in the late 1980s changed, however, is that the certainly abandon fixed platform continued in the late 1980s.

Shows that there could be a urning programme will propagate could easily fall behind what is still one of the brightest number of sizeable pockets of vide the answers. The industry the pace required if they are offshore exploration areas in the late is to take its first tentative steps to help the country remain oil the world. Where things have the companies would almost approaches to the English into this area this summer, folself-sufficient in the late 1980s changed, however, is that the certainly abandon fixed platform continued in the late 1980s changed however, is that the certainly abandon fixed platform continued in the late 1980s.

Solution of a replication of a

half of their peak rate, or refute these figures. So far geological faulting and could novel production, techniques, field (the Morecambe discovery) hydrocarbons are known to be. The Department of Energy number

water depths of less than area. But the region on this that structures capable of trap- often" system of licence alloca- since the day when the first oil 1.000 feet. One third of the lower western side of Britain ping oil or gas also appear to tion provides the Government field was discovered. The unceride shortnge of oil supplies into new exploration areas. The have so far been located in the depths of up to 2,000 feet while potential is in the Western whether there is any oil or gas pace of offshore activity. But not prevented them from and, almost inevitably, much West Shetland Basin has been northern North Sea region igher crude oil prices. receiving greater attention from However, U.K. self-sufficiency the industry in the past year, biggest reservoirs off Britain's any be maintained, providing be maintained, providing partly thangs to a couple of shores including Brent, Ninian and the largest of them all.

To extract oil at these depths of up to 2.000 feet while potential is in the Western whether there is any oil or gas pace of outsnore activity. But not prevented them all and ethic steps are gious for the remaining area lies beneath Approaches. The map clearly to be found. Only a full-scale there is a danger here. Combecoming fully committed to show that there could be a drilling programme will propagate activity. But not prevented them all and ethic steps are gious depths of up to 2.000 feet while potential is in the Western whether there is any oil or gas pace of outsnore activity. But not prevented them all and ethic steps are gious for the remaining area lies beneath Approaches. The map clearly to be found. Only a full-scale there is a danger here. Combecoming fully committed to show that there could be a drilling programme will propagate activity. But not prevented them all and ethic steps are gious for the remaining area lies beneath Approaches. The map clearly to be found. Only a full-scale there is a danger here. Combecoming fully committed to show that there could be a drilling programme will propagate activity to be found. Only a full-scale there is a danger here. Combecoming fully committed to show the remaining area lies beneath Approaches. The map clearly to be found. Only a full-scale there is a danger here. Combecoming fully committed to show the remaining area lies beneath Approaches. The map clearly to be found. Only a full-scale there is a danger here. Combecoming fully committed to show the remaining area lies beneath Approaches. The map clearly to be found. Only a full-scale there is a danger here. Combecoming fully co

calling for stable government tion and production is concessions were policies relating to regulations coinciding with the realisation nger to obtain Government earlier this month that during again the drilling success rate dynamically-positioned drill-country made such a fuss over offered under the fifth round of on the development of fields that the best prospects are the definition of this houndary, licences in 1976. It was by far already identified. They argue already being exploited. What themes. There is uncertainty cent of all offshore wells would set against worldwide explora- Moving south and back into Most of the ingredients for the smallest round presented by that possible changes in remains to be found will be



Letters to the Editor

e defence of a system which amsferred to county councils ager functions of local government officers, but, most ager functions of local government officers, but, most implied that his clip-board sales entitled that his clip-board sales whom it was meant to serve.

In all but the whom it was meant to serve errore in all but the whom it was meant to serve errore only be considered as changes to the present local error of that they ca make money of money implied that his clip-board sales detivities could result to business newspapers, buses, trains, refuse being placed with Standard Life collection. hospital and fire it correct the record by telling services and much else. They error that they ca make money of money implied that his clip-board sales electricity, gas, coal, bread, mail to be implied that his clip-board sales of themselves by the newspapers, buses, trains, refuse the record by telling services and much else. They error that they ca make money of money of themselves by the newspapers, buses, trains, refuse the record by telling services and much else. They services and further that my than by doing the actual work walbrook had for themselves by catting off my implied that his clip-board sales electricity, gas, coal, bread, mail to be implied that his clip-board sales electricity, gas, coal, bread, mail to be implied that his clip-board sales electricity, gas, coal, bread, mail to be implied that his clip-board sales electricity, gas, coal, bread, mail to be implied that his clip-board sales electricity, gas, coal, bread, mail to be implied that his clip-board sales electricity, gas, coal, bread, mail to be implied that his clip-board sales electricity, gas, coal, bread, mail to be implied that his clip-board sales electricity, gas, coal, bread, mail to be implied that his clip-board sales electricity, gas, coal, bread, mail to be implied that his clip-board sales electricity, gas, coal, bread, mail to be implied that his clip-board sales activities could result in business to be implied that his clip

hreatened

It is essential assurance should be and openly and no intermediary or in pany need feel and openly and no intermediary or in pany need feel and openly and no intermediary or in pany need feel and openly and no intermediary or in pany need feel and openly and no intermediary or in pany need feel and openly and no intermediary or in pany need feel and openly and no intermediary or in pany need feel and openly and no intermediary or in pany need feel and openly and no intermediary or in pany need feel and openly and no intermediary or in pany need feel and openly and no intermediary or in pany need feel and openly and open

ore satisfactorily between strict and county councils, and can only assume that Mrs. Office a dial meter that shows the wrote her letter because its possible findings. The dupheation and wasteful reasonable in gendary and Mrs. Coker clearly ems to acknowledge this by a sumption that any return the more sensible all-purpose cal authority system which evailed in all the larger cities fore reorganisation would be a further costly upheaval."

I feel quite sure that in the larger would be more in would be more sensible all-purpose a further costly upheaval."

I feel quite sure that in the larger would be more of the more sensible all-purpose as fore reorganisation would be more costly upheaval. The process of the cumulative total of units. Thus, you can monitor any can monitor any call and cheek your phone bill.

But there are songs. The Poet guarter for the meter and it does not guarantee that it is as shave been a regular air traveller. Sir, — For the past 15 years I have been a regular air traveller of the purchase of an air-line foreign curvature as the meter on which earning substantial foreign curvature. Ason.

The Water in the bill is based. More important, rency for this country. I regard the purchase of an air-line focket in the bill is based. More important, rency for this country. I regard the meter seems to be invisible the gurchase of an air-line focket in the bill is based. More important, rency for this country. I regard the purchase of an air-line focket in the bill is based. More important, rency for this country. I regard the purchase of an air-line focket in the bill is based. More important, rency for this country. I regard the purchase of an air-line focket in the bill is based. More important, rency for this country. I regard the purchase of an air-line focket in the bill is based. More important, rency for this country. I regard the bill in the more sensible all the purchase of an air-line focket in the bill is based. More important, rency for this country. I regard the bill in the more sensib I feel quite sure that in the hill of the gument that Mrs. Coker puts rward for regining the present vatisfactory system is that me of the county councils staff

sociations are opposed to

The Crescent, King Street,

Stockport, Cheshire

Confingency politics

note arring it.

While it is true, as Mrs. Cofer from Mr. D. Folker

Strict Councils has not asked reducation to be transferred Mrs. Thatcher, Mr. Rex. Winshury of 20 to 30 per cent, but the bills. For the record district councils, it is the asks: "What is the Thatcher polisantmous view of all the tical philosophy?" Would that itimes, surport hus routes, etc., 48 per cent, more than last year ected members in Leicester she kept it secret. I can assure than I do. This is in marked conpeter Gregory.

Not earning it.

Recently I discovered the so-called bucket shops and was decided bucket sho

changes in the city as it was prior to 1974 or Mr. Matthew Parris will oblige the city as it was prior to 1974 or Mr. Matthew Parris will oblige the city as it was prior to 1974 or Mr. Matthew Parris will oblige to composition of the working party investigating these people, it agree with this but seems prepared to accept the anomalous wards liberalism (in the old decided to do a halchet job on and unsatisfactory situation of fashioned sense, not that of the bucket shops instead of interesting the stupidities of the larger non-metropolitan present Liberal Party). She is restigating the stupidities of the cities merely for the sake of not, however, a purist, and lacks the kind of characteristic of one; Stability.

Many of us do not place such but how many point, either she of the terms of reference and the composition of the working party investigating these people, it appears that the fovernment has decided to do a halchet job on the larger non-metropolitan present Liberal Party). She is restigating the stupidities of the cities merely for the sake of not, however, a purist, and lacks.

Nany of us do not place such but how many point, either she of the terms of reference and the composition of the working party investigating these people, it appears that the fovernment has a party investigating these people, it appears that the fovernment has a party investigating these people, it appears that the fovernment has a processor of the city as it was prior to 1974 or Mr. Matthew Parris will oblige composition of the working party investigating these people, it appears that the fovernment has a processor of the city as it was prior to 1974 or Mr. Matthew Parris will oblige composition of the working party investigating these people, it appears that the fovernment has a processor of the city as it was prior to 1974 or Mr. Matthew Parris will oblige composition of the total party investigating these people, it appears that the fovernment has a processor or the safe for the safe for the safe for the safe for the safe fo

levice has been available for Assurance Company, ears.

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the larger non-metropolitan present Liberal Partyl. She is clitics merely for the sake of clitics merely for the sake of clitics of March 15 and 28.

Into a lone voice in advocating me necessary changes in the larger non-metropolitan present Liberal Partyl. She is clitics merely for the sake of clitics merely for the sake of clitics in the kind of characteristic of one; but how many politicians or, including me necessary changes in the would give a much higher to a premium on "stability" and deverment, although he has so it only provoked correspondence from a county council on or view (Rs. Coker on arch 21 and Mr. Barnes on arch 21 and Mr. Barnes on arch 23).

There is a great deal of support for Mr. Freeman's case for change in the shires," parcellarly in the ten largest non-netropolitian districts of Bristol, ardiff. Derby, Hull, Leicester, clitical successions of the most patterns of the most patterns in the county on and Stoke 1 Trent (all with populations over 200,000 and one, at least, ith twice that figure).

As charman of the executive bases for local government of the County Council's sociation, one would perhaps to post the most patterns in the county councils and success of the county councils and servered to county councils and servered to county councils and servered to county councils and the most patterns of the cestative bases for local government officers, but, most answered to county councils and the most patterns when he county councils and the most patterns when he county councils and the county councils and the county councils and the county councils and the most patterns when he county councils are frective bases for local government officers, but, most and counting of the county councils and the county councils and the county councils and free functions of local government officers, but, most and county councils and free functions of local government officers, but, most and county councils and free functions of local government officers, but, most and county councils and free functions of

Walbrook and further that my than by doing the actual work Company would not accept which is under dispute, business from any agent if we knew it had been secured directly proof? Were it not so the roar of as a result of clip-board selling. It is essential that life again be heard in the land—only assurance should be sold honestly the roar of industrial machinery, and openly and no professional intermediary or insurance combeen reversed, and had I inpany need feel ashamed (by commoded these gentlemen in a disguising the fact) of selling similar way, they could prosecute essential protection or future me pronto. I unionless, have no security to members, of the public.

G. P. Glover.

The Standard Life such damage to my country and my fellow citizens. Common sense screeches to high Heaven that a courageous

start must be made on the start must be made on the alteration of existing laws on this matter. Unless work-dodging is made less profitable than work (currently it is a trade in itself) once-mighty England will continue still to be dragged at the heels of the protected wreckers.

lines claim cause extra cost in from the North West North N

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year terms oftra 2 Interest > onthly income	400: 0.09%	

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COMPANY NEWS + COMMENT

Strike cuts Lucas to £27.6m. at half time

		-year
	1978	1977
	£m.	£m.
Sales	462.39	415.23
Depreciation	11.39	8.37
Tracking surplus	30.34	35.90
Share Associates	1.09	1.57
Interest payable	3.82	2.80
Profit before tax	27.6L	34.67
Tax	14.38	18.01
Net profit	13.03	16.66
To minorities	0.30	0.57
Attributable	12.93	16.09
	Lex	

INDE	X TO.C	OMP	ANY HIGHLIGHTS		
Company	Page	Col.	Сотралу	Page	C
APV Holdings	30	.4	House of Lerose	30	
Assd. Book Publishers	29	,3	Lilley (F. J. C.)	3.1	
Aurora Holdings	28	2,	LWT Holdings	28	:.
BBA Group	28	ī	Lucas Inds.	28	
Biddle Holdings	30	- 5	Martin (R. P.)	30	
British Petroleum	30	6	Mixconcrete	29	_
Bridon	31	4	Mole (M.)	29	
British Mohair	28	6	Prudential Assce.	30	
Bruntons (M'burgh)	28	4	Pye Holdings	28	
Bulgin (A. F.)	28	. 8	Reckitt & Colman	29	
Desoutter Bros.	30	3.	Relyon (P. B. W. S.)	29	
English Property	.30	3	Sirciar	29	
Erith & Co.	28	_ ₇ _	Transatlantic Market .	30	
Fothergill & Harvey	28	1	Ward White	28	_

LWT expands midyear

	DIVIDENDS ANNOUNCED House of Fraser up
COMPANY NEWS + COMMENT	Date Corre- Total Total Current of sponding for last
	APV Back Pribishers 371 May 19 3.32° 5.71° 5.16° 31 % to 1.30111.
Strike cuts Lucas to £27.6m. at half time	Aurera Holdings
Stilke cuts Lucus to 227.0m. at han time	Bridge Sec Int. 384 May 24 3.95 6.14 6.11 Heave of Fraser, a department of the contract of the
REFLECTING THE effects of its lengthy U.K. toolroom strike, pre- tax profits of Lucas Industries fell INDEX TO COMPANY HIGHLIGHTS Tools and Wm. Oxley should add some £200,000. The shares, how ever, slipped 4n vesterday to 946	Brit: Mohair 2 May 12 1.73 2.73 2.46 store operator, expanded its profit by 30.8 per cent to a tax
from £34.67m. to £27.61m. in the Company Page Col. Company Page Col. where they offer a yield of 9 and	
strike is said to have cost Lucas APV Holdings 30 4 House of Lerose 30 8	English Property 1.05 — 1.05 2.5 cent. at assistant (114 Tim.) to
Turnover for the period rose from £418.23m, to £462.39m, and the directors say worldwide BBA Group Assa. Book Publishers 29 3 Lilley (F. J. C.) 51 5 Aurora Holdings 28 2 LWT Holdings 28 4 Lucas Inds. 28 1	And
demand remained strong. Turn- over would have been higher but Biddle Holdings 30 5 Martin (R. P.) 30 5 EXDANGS	House of Lerose 2.12 June 26 1.71 3.92 3.54 policy during the year, stock Group, which has interests FIC Lilley 1.57 June 2 0.78 2.57 L3 appreciation relief was reduced the manufacturing and wholes
for the restriction on supplies British Petroleum 30 6 Mixconcrete 29 4 from the U.K. factories. Despite this, and other areas of Bridon 31 4 Mole (M.) 29 2 midyear market treatment areas of British Mohair 28 6 Prudential Asset. 30 1	LYT Holdings
was made both at home and ores. The company of the	
Vehicle equipment husinesses Bulgin (A. F.) 28 8 Reckitt & Colman 29 1 the half year to January 22, 1978	or Mixconcrete
supply European vehicle and supply European vehicle and English Property 30 3 Sirdar 29 4 by regarded as in part expenses	Nth. Broken Hill
equipment businesses continued Erith & Co. 28 7 Transatlantic Market 30 3 tional to advance. Plans to substantially increase Fothergill & Harvey 28 I Ward White 28 8 gramme expenditure to which the	o- Reckitt & Colman 2nd int. 5.95 July 3 5.34 10.61 9.59 that the book value of stock will exports from the U.K.
the group's share of the U.S. House of Fraser 28 7 Warne Wright Roward 28 3 company is committee during the	
The current firm demand is expected to be maintained and maintains a strong position in all plain.	Viscos Development 167 June 1 148 2.83 2.33 tim relief, but deferred tax has experted by William William 167 June 1 148 2.83 2.33 tim relief, but deferred tax has experted to the design of t
snared to recover further the State of the s	L MSUR MARTE 1781 SAMEY YOU WAS SEEN STREET STREET STREET STREET STREET STREET STREET STREET STREET
ground lost in the first half. Earnings per £1 share are shown to have declined from 17.14p to 13.78p. Earnings per £1 share are shown to have declined from 17.14p to 13.78p. Earnings per £1 share are shown to have declined from 17.14p to 13.78p. Earnings per £1 share are shown to have declined from 17.14p to 13.78p.	Wilkinson Warburton 3.51 May 30 29 5.11 4.5 other items. Winston Estates
The interim dividend is lifted from 2.132p to 2.334p net. Last from 2.132p to 2.334p net. Last Aurora from 2.132p to 2.334p net last Aurora from 2	s mereased by rights and/or acquisition issues. 1 For 18 months. released 12.76m, from deterred companies in Western German, 429p annualised. § Australian cents throughout. tak, representing stock apprecia. Holland and the Irish Republication relief provided in earlier be added in a page.
year a bosole male was paid on PRE-TAX profit of Aurora Hold- engagement of debapture and a scrip issue. A mal of 3.3440	years, and added it to share. Rasic full years earnings per 25 bolders' funds.
£2.19m. (£1.99m.). engineer, was a record £2.51m. in transfer of the group's brick. Half-year Year 1977 against £2.39m. in the making interests to Scottish Brick • comment	reported in 1977 as £148.66m. and 21.52p (8.88p) and 13.26p (7.65) this figure has therefore in 21.52p (8.88p) and 13.26p (7.65)
fm. fm. fm. annualised profit was £2.12m. borrowings by £600,000. last year of exemption from	pares with the present total share
Interest payable 3.82 2.88 4.33 The popult is after interest of Growth in practically all its divi- cent. The first half results sup-	ATTRIBUTABLE profit for 1371 turnover, 1313 seems to have salitational for the year
Tax 14.3 18.01 39.62 £524.000 (£609,000 and £540.000) cent. rise in pre-tax profits at per cent. The improvement is Net profit	s adjusted after the elimination of matched Pye's budget. The shares amounts attributable to the closed 5p higher at 100p.
Attributable 1983 1689 3672	Course include Ci Offic eminor
	subsidiary Pye of Cambridge and Dill. 191911411
acquisition issues. Diluted earning good profits, metals gave a advertising revenues of about 31 ings are given at 20.98p (29.71p creditable performance to the same period, ever hardware was weighted down per cent. over the same period.	last time. Earnings per 25p share are at peak
The final dividend per 25p by weak overseas operations and most of the market share it lost share is 8.96p net (2.16p) for a process and industrial plant to Thames in London last year	and the dividend is increased to 12.41m against £20.8m, last time, taxable distinct taxable or 1111.
pre-tax profit of Fothergili, and months of 1975-76 when Aurora due to increased costs. But these increasing demand for advertis- Harvey advanced from £902,679 to altered its balance date, payments writakles are expected to be increasing demand for advertis-	increase has been given. downturn from £1.37m, to £1.36m. At halfway profit was down record £1m for the year t
turnover of £12.04m. against annualised 1976 the pay-out was jug a spenificant increase and full Meanwhile, with interest rates at	debit of 23.74m, for 1877 against a 1977 with taxable profits up from shortfall on last year's record directors then said they again
Tax takes £362,132 (£8,701 credit Directors say gearing of the latest acquisition, a growth of increasing pressure to find an restated) giving available profit group was reduced from 0.97 to	have come to light in the sub- 20.13m. against The directors say the lower pro- the paid that profits for the second that profits for the second that the sub- 20.13m. against The directors say the lower pro- the paid that profits for the second that would be better than for the second that profits for the second that the sub- that the s
Stated earnings per 25p share sales of surplus land and build of the acquisitions, the Colliness about £10m. At 128p the stand at are 12.48p (16.64p). The dividend ings totalling £945,000 negatived Coulomb and the colliness about £10m. At 128p the standard are 12.48p (16.64p).	are still to be investigated. The says that during 1977 there was a and construction industry and Stated carnings are up from extraordinary debit includes a slow-down in deliveries of mobile also the make adequate 2.02p to 2.5p and the dividen
6.2113p (5.561p) net, with a They say order books show a fource is expected to make about crease in the dividend total the	vary to the European market provision for had and doubtful is taken in the same of the control o
significant nicrease and the group tim, profit while Lerche Machine yield is 0.4 per cent.	deficiency. 1975 adds that the European market is Trading in the second half the current year has started well good now tending to improve and says showed an encouraging upward and prospects appear favourable and prospects appear favourable.
BBA slows in second half to finish lower at £7m.	Pre of Cambridge: It would appear that their group trend, and directors are looking for further growth in group transport is 15.25 165.25 prospects for 1978 are encourage to this continuing in 1978. Tradical profit in 1978 profit emerges at 1977.825 Net profit emerged as 1500.61 ing. Net profit emerges at 1977.825 Net profit emerged as 1500.61
MAINLY OWING to a 44.5 per Capital spending in 1977 was Earnings per 50 share for the Cork Gully and Co., chartered cent, drop in earnings from over-slightly below budget at 65.00m.	Bank interest etc. SE 2225 Stated earnings per 25p share (£456.273) and earnings per share (£404.705) after tax of £503.93 ' Profit before tax 15.65 13.95 are up from 8.48p to 9.98p and the are given at \$.14p against 9.85p (£427.976). The group manufac
able profit of BBA Group fell by gearing was unitained at 40 per from 0.924p to 1.032p, costing £488.114 to £7m, for 1977. Sales cent Authorized capital expendity control of the cost of	Extraord. could be seen as the second of 2.003p net. The final dividend of 3.64009p components.
by the company, which has in ture for the current year amounts filliging against fi23,036, net	Proference div 113 113
ing and asbestos textiles, were up change in the method of account- 6.8 per cent. from £99.1m. to ing for deferred tax to take	Pye Riddings: Py
Direct exports were held at relief and allowances on capital E12.7m. and represented 26 per spending Comparatives have been	Appropriated: 1.246 2.744 Available 7.791 5.255 Internal dividend 6.792 Propriet final 1.251 1.424 Prefix final 1.251 1.424 Prefix final 1.251 1.424

	#111010110p	1977	-1476
		5990	50:00
	Pye of Cambridge:		
	Tarnover Tradica profit	163.577	166.337
	The diam	17 570	18 477
	Hanne brone	970	I PAT
	Loan interest		
	Bank interest, etc	- 23	
eđ			13.435
at	Taxation		6,513
	Net profit	8,394	
	Extraord, debit	3,744	:276
	To minorities	447	447 E
	Preference div		113
	Leaving		
	Pye Roldings:	4100.0	1
	Pre Hides, net profit	5	:35
	Attributable	4,695	
	Transfer	3.044	1
	Appropriated	1.246	
	Available	7,797	
	Interim dividend	682	
	Proposed final	1.551	1 424 1
	Retained	6 044	1.779
	'Advisted - including		
	come. Credit. Loss.		
	ment and exchange on		
			32110
	To stock trolacement re	2011	1

quarter up with turnover showing a gain of 114 per cent. The comwas down from £1,146,000 to pany prepares its accounts of £799,000, the directors said that in the replacement cost convention pany prepares its accounts or the first two months of the second so a more appropriate comparison half there had been no further may be of profits available for fall in earnings, which were run-distribution which have jumped ning at the average of the first six by over 40 per cent to £7.8m. But mouths. Second half results were this is after taking credit for expected to be in line with first-written back reserves of £5m... which are no longer considered

ALTHOUGH second-half results Industries involve an alleged overwere better than expected, pre-tax statement of assets and under certain transactions made thi year which Pye claims were not valid and which had the effect of

MAINLY OWING to a 44.5 per cent. drop in earnings from overseas automotive activities, taxable profit of BBA Group fell by £488,114 to £7m. for 1977. Sales by the company, which has interests in the manufacture of friction materials, conveyor belting and asbestos textiles, were up 6.8 per cent. from £99.1m. to £103.8m.

Direct exports were held at £12.7m. and represented 26 per cent. of sales by the U.K. companies.

Capital spending in 1977 was slightly below budget at £8.02m, sugar are down from 5.6p to 4.5p accountants on April 11, 1978 at and the dividend is increased from 0.924p to 1.032p, costing £23.220 (£20.790). After tax of £11.013, against £123.036, net profit came out at £102.900

Bruntons

Bruntons

Peak £1.4m.

Direct exports were held at £12.7m. and represented 26 per cent. of sales by the U.K. companies.

The expected increase by Textar GmbH. in the latter part of the year did not occur to the degree anticipated but the U.K. BeA's principal overseas companies' contributions rose by panies have proved the stumbling over 30 per cent. the directors

Lloyds Eurofinance N.V. Copies of the Accounts of 30th September 1977 are now

The Secretary, Lloyds Bank International Limited, 40-66 Queen Victoria Street, London EC4P 4EL.

over 30 per cent, the directors olock in the group's growth path. At half time profit had been that year, overseas profits fell this per cent, more than off-better, at £3.12m, against £2.99m, setting the 30 per cent, increase Earnings per 25p share for the year were 9.54p (9.58p) and there companies were the West German is a second interim dividend of subsidiary, Textar, which failed to provide the expected profits after losing an important Mercedes Benz contract and Sendars of 2.5834p (2.1557p).

The directors expect better results from the principal overseas companies Textar and Scandura of the U.S., which was hit by the early for them to make any considered forecast for the year.

Friction material sales increased obtting were down: These, together with sales by overseas companies totalled in the U.K. Mintex continued to make good progress with both sales and profits higher.

Inthe U.K. Mintex continued to make good progress with both sales and profits higher.

Inthe U.K. Mintex continued to make good progress with both sales and profits higher.

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Inthe U.K. Mintex continued to make good progress with both sales and profits higher.

Inthe U.K. Mintex continued to make good progress with both sales and profits higher.

Intention year results and profits from last year to on increased capital from last year sone-for-two rights issue year's one-for-two rights issue of the year are shown to be down from 15.054p to be prefitable by the year-end, although the early part of this year while the U.K. 2.64p (2.1704p) net with a final from 6.3249p to 7.004p, the operations may well continue to the profit of the year was up from 12.5340 and the dividend is lifted to be down from 15.054p to be down from 15.054p to premium was received last year.

As announced in October, a second interim dividend of 3.9191p to total from 6.3249p to 7.004p, the operations may well continue to register satisfactory progress. The base increased capital from 19.76.

Intention of 116.171, while no premium was received last year.

As announced in, October, a second interim dividend of 3.9191p to total from 6.3249p to 7.004p, the operations may well continue to fine promium was received last

J. Hewitt falls to £213,913

Pre-tax profit of J. Hewitt and Son (Fenton), a domestic and industrial refractories manufacturer, fell from £250.409 to £213.913 for 1977 after £36,000 at halfway, compared with £98,000. The directors said then that the lower trend of profits was expected to continue for the rest of the year.

at Warne

to £20.07m for 1977 Warne, the steel products group, fell from Wright and Rowland reports a £2,337,064 to £1,723,855 in 1977. rise in taxable profits from Turnover rose from £10.09m to £1.26m, to a record £1.42m, after £10.3m. £0.64m., against £0.56m., at the interim stage. Directors then said E0.64m., against £0.56m., at the in 1976 there was a £400,000 stock profit. In the latest period that the full year results should a stock loss of £59,330 was shown.

The directors also point out that

		1977	1976
		£	£
	Turnover	20.066.595	18,035,5
	Trading profit	1.485,798	1.323.9
	Debenture interest		
	Pre-tax profit		
	Tax		
	Net profit		
	Preference divs	10.238	10.5
ıð	Ordinary divs	271.470	148.7
n-	Retained	869,439	972.2
c.			

DRAYCOTT **CONTAINERS**

£1.74m.

The directors now say that necessary for the preservation of although 1976 benefited by £29,530 the business after the audio-visual from capital gains and interest relief grant, the current year benefited in this way by £101,924. The 1977 figures reflect volume growth in the U.K. of around 4 per cent, but a decline of perhaps

The irregularities of Cabinet

The men have been remanded on bail of £60.000 each.

	deficiencs.		
	Williams.	1977	-1976
		5990	
	Pye of Cambridge:		
		153,537	161,137
	Turnover Tradica profit	17,579	16.42
	Loan interest	970	I 1957
	Bank interest etc.	533	2.325
edi		16.854	
		7.662	
at	Taxatler	8,394	
	Net profit	3.744	
	Extraord, debit		
	To minorities		
	Preference div		
	Leaving	4,090	6.22:
	Pye Roldings:	_	
	Pre Hitles, net profit	5	;35
	Attributable	4,695	
	Transfer	3,044	!
	Appropriated	1.246	
	Available	7,797	
	Interim dividend		
	Proseed fittal	1,151	
	Retained	6 044	1.779
	* Advisted Including	27705170	er in-
	come. : Credit. ! Loss. "		
	ment and exchange pro		
	To stock trollacement to		

Charges have been against Mr. Harry Hurst, chair-man of Cabinet, and Mr. Alfred ing the theft of £47,000 cash from

comment

A MEETING of creditors of (£1,185,839), net profit is £1,151,225 11 per cent. but a decline of perhaps Draycott Containers Services, has (£910,288). Earnings per share are been called at the offices of W. H. shown at 14,23p (11,38p).

Reckitt & Colman 1977 **Preliminary Results**

Sales rose 15% to £557 million Profit before tax rose 12.6% to £57.91 million Earnings per share rose 16.9% to 53.30p UK export sales rose 30.8% to £35.5 million

	1977 £ million	1976 £ million
Sales to customers	557.00	484.25
Trading profit Interest payable less other income	62.47 4.56	54.97 3.54
Profit before tax Tax on profit (see below)	57.91 21.87	51.43 20.75
Profit after tax Attributable to minority interests	36.04 3.19	30.68 2.78
Preference dividends	32.85 0.16	27.90 0.16
Earnings attributable to ordinary shareholders Exchange differences (1977 loss, 1976 profit) Extraordinary items	32,69 (5.40)	27.74 4.95 0.97
Profit attributable to ordinary shareholders Ordinary dividends (see below)	27.29 6.51	33.66 5.87
Added to reserves	20.78	27.79
Earnings per share	53.3р	45.6p

Note:

No provision has been made for deferred tax except where a liability is expected in the foreseeable future. This represents a change in accounting policy and the 1976 comparative figures above have been restated. If the previous policy had been followed in 1977, the tax on profit would have been £26.68m (1976 £24.41m).

The improved sales and profit have been achieved in one of the most difficult international trading years in the past two decades. Significant contributions to this improved profit were made by UK exports and by our performance in areas outside the EEC.

The board is confident that Reckitt & Colman's wide spread of business, by product and geographic area, will continue to enable the company to prosper in today's world markets and to benefit rapidly from any upturn in world trading.

Ordinary Dividends A second interim dividend of 5.95478p per share has been declared and will be paid on 3rd July, 1978. This makes, with the first interim paid in January 1978, a total of 10.61478p per share, the maximum permitted by

One of the aims of the board is at least to maintain the value in real terms of dividends paid to shareholders. Provided dividend restraint ends and payment can be made during 1978, the board will declare a third interim dividend of at least 2.88522p per share, which would make a total for 1977 of at least 13.5p per share. Such a third interim would cost £1.77m plus Advance Corporation Tax of £0.91m, for which no provision has been made.

Copies of the Annual Report will be posted to shareholders on 2nd May

The Annual General Meeting

Will be held on Thursday, 25th May 1978 at the Connaught Rooms, 15 Great Queen Street, WC2 at 10.15 am for 11.00 am. A presentation will be made of the company's contribution to Export Year.

Reckitt & Colman

Principal product groups: Food and wine, household and toiletry, pharmaceutical, industrial and leisure.



quality glass suppliers. Our name, Crown House, is one rarely associated with glassware. Yet our Group includes Britain's most wide-spread table glass suppliers, with factories and warehouses in four locations in the United Kingdom. Far better known in the glass world is the name of our glassware division, Dema Glass, through the manufacturing of full lead crystal branded as "Thos. Webb" and "Edinburgh"

made glasses each year. Dema Glass did well for Crown House and for Britain last year, by increasing their exports to over half their output.

To find out more about the achievements of Dema Glass and the rest of our group, contact our Chairman, Patrick Edge-Partington at 2 Lygon Place, London SW1W 0JT. Telephone 01-730 9287.

> Crown House You may not see us, but we're there.

Financial Times Friday March 31 1978 Reckitt and Colman at £58m. and confident

IGE TO FUE TALL SECON	Dis.	
	1977	1976
	Ωn.	£m.
ernal gales	557.6B	494.25
ding profit	62.47	54.87
interest payable	4 56	3.54
offit before tax	57.91	51.43
£	21.97	20.73
(- profit	38-04	30 0
minorities	3.19	2.78
ference dividends	0.18	0.16
chance losses	5.40	14 95
renord. credits		0.93
ributable to Ord	27.20	33.66
l dividends '	6.51	5.87
reserves	20.78	
la provision made for		
cept where liability is		
raceable future. Compa		
ratelog lutur. Cumpa	AUN'T	In all the

sem. (FM-41m.). † Profit.

A geographical analysis of sales of pre-tax profits shows U.K. mostic £127.19m. (£111.59m.) of £9.59m. (£9.37m.) after deductive exports of £35.5m. (£27.14m.) of £5.03m. (£4.3m.); rest of cone £91.9m. (£76.79m.) and 97m. (£7.64m.): North America £9.98m. (£114.15m.) and £10.5m. (£9.86m.) and £14.37m. (£7.94m.) of Latin America £46.86m. (£7.94m.) reportate interest and expenses cone £1.66m. (£1.44m.) cond and wine contributed and son rose from £61.512 to portate interest and expenses of £1.48m., against £1.66m. (£1.04m.).

Indicate interest and expenses of £1.48m., against £1.2m. taxable profit of £1.48m. against £1.2m. taxable profit of £1.612 to £1.76m. (£215.23m.) to sales and £104.485 in 1977.

9.158p per share for 1976.

In Europe price controls and competitive pressures intensified in the second half but in North America results showed encourage ing progress in the light of lack of business confidence and flat trading conditions. The new

to £2.6m.

INCLUDING ASSOCIATE company contributions of £11,000 compared with £10,000, taxable profit of Associated Book Publishers lifted from £2.29m. to a peak of £2.61m. in 1977. Turnover was £23.64m. against £22.37m.

After tax of £1.26m. (£1.17m.)

After tax of £1.26m. (£1.17m.)

and minority interests of £242.000 parment in foreseable probability of parment in foreseable future.

(£250,000), attributable profit commes out at £1.11m. (£869,000).

At halftime profit was ahead from further improvement in the perfactory full-year advance was increase in U.K. turnover of 30 per cent. and better margins

orb £1.66m. (£1.04m.).

£1.2m.. taxable profit of M. Mole permitted 4.018p (£.6349). In the food and wine contributed and Son rose from £61,612 to event of a change in the ACT 17.76m. (£215.23m.) to sales and £104.485 in 1977.

1.54m. (£15.58m.) to profits; There is no corporation tax dividend will be adjusted accordischold and tolletry £193.25m. liability and earnings per 20p ingly.

Mixconcrete reaches

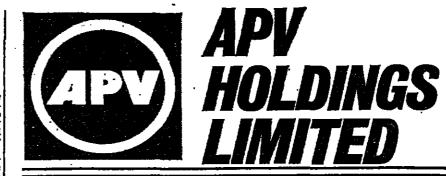
PRE-TAX profits of Mixenerete (Roldings) recovered from a half-time downturn from £459,000 to £150,000 to £150,000

FIRE RISING from 256.7m. to the control of the cont

	Z./9U58D.			
	•	28 1	rceks	Year
		1977-78	1976-77	1976-77
		5000	2000	5000
-	Turnover	10,113	5_214	16,435
		1,065	726	1.550
	Interest Pre-tax profit	179	219	414
L	Pre-tax profit	226	507	1,136
ř	Tax	170	43	97
ŀ	Net profit	716	462	1,039
,	Extraord, credits	22	20	41
	Makine	736	482	1.060
	No provision ma	de for	deferr	
•	unless there is real	onable	probab	dity of
ì	payment in foresee	able fi	ture.	

factory full-year advance was increase in U.K. turnover of 30 anticipated.

Earnings per 20p share are have contributed to the best shown at 30.4p (23.8p), and a half-year so far achieved by the second interim dividend of 2.518p group, say the directors.



The upward trend continues

OPERATIONS: Process engineers, plant manufacturers, fabricators and steel founders.

PRODUCTS: Heat exchangers, evaporators, dryers, pumps; refrigeration and other specialised processing equipment.

MARKETS: Dairy, food, brewery, chemical, petroleum and marine

GROUP: 60 operating subsidiaries in 20 countries.

EMPLOYEES: 12,900 of whom 5,250 overseas.

ORDERS RECEIVED:

£'000 213,400 £137,400 Profit before tax 16,645 12,607

Profits before tax

over ten years

Earnings per share **27.11**p 25.13p **Ordinary dividends** 5.7071p 5.1608p

APV Holdings Limited, P.O. Box No. 4, Crawley, West Sussex, RH10 2QB.

Grindlays Holdings Limited
51% of the shares of Grindlays Bank Limited are held by Grindlays Holdings which is quoted on The Stock Exchange, London.

Grindlavs

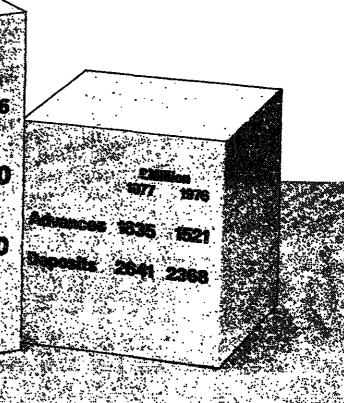
A name you can bank on around the world



In his statement to the shareholders Mr. N. J. Robson, the Chairman, says:

In 1977 there has been continued progress in expanding the international business and strengthening it in a number of important ways both in London and overseas."

"Much has been achieved in 1977 and it is right to continue to be confident about the outlook for this group with its wide spread of business."





23 Penchurch Street, London EC3P 3ED.

The Prudential Assurance Company Limited

The unaudited results for the Prudential Group of Companies for 1977 are set out below with comparative figures

for earlier years. The Directors have declared a final dividend of 4.198p per share payable on 25 May next. This, together with the interim dividend of 2.450p per share declared in September last, amounts to 6.648p. Adding an imputed tax credit at the rate of 34/66ths, the equivalent gross amount is 10.073p per share, and compares with

		1977	1976	1975	1974
•		£m	£m	£m	£m
L :	Surplus	236.4	210.0	186.8	135.8
	Policyholders' bonus	220.5	196.4	174.8	127.8
	To Profit and Loss Account	15.9	13.6	12.0	8.0
Non-lise .	Premium Income	358.4	321.9	233.9	190.8
	Underwriting loss	(9.5)	(10.2)	(8.3)	(4.7)
	Investment income	23.4	21.5	15.7	11.5
		13.9	11.3	7.4	6.8
	' ration	3.6	5.0 ·	4.1	1.6
	To . fit and Loss Account	10.3	6.3	3.3	5.2
Profit and	Life	15.9	13.6	12.0	8.0
Loss	Non-lite	10.3	6.3	3,3	5.2
Account:	Other net it. ame	5.7	4.5	2.7	2.9
	Profit for the y	31.9	24.4	18.0	16.1
	Retained profits	12,1	8.0	3.2	4.6
<u> </u>	Dividend cost	19.8	16.4	14.8	11.5
Equivalent on	oss dividend per share	10.073p	9,158p	8.326p	7.711p

The growth of income and profits in 1977 naspeen reduced by the improvement in the sterling

There was a continued improvement in the surplus rom life business which enabled policyholders' bonuses to be increased and a larger transfer to Profit and Loss Account to be made. The non-life underwriting loss showed a small reduction in total after providing for a refund of some £3.3m to policyholders in Canada in accordance with the requirements of the Anti-Inflation Board. Some worsening occurred in the Company's underwriting regults in the United Kingdom. There was continuing adverse experience in the domestic property account and a small loss on the motor account. Commercial property and pacuniary loss accounts and long term general business continued

profitable. Overall the results showed liftle change. Overseas the Company's results in Carada remained good. Australia continued to show improved profitability and L'Escaut produced better results. Underwriting experience in New Zealand and

Holland and in our South African subsidiary was disappointing.

Although the underwriting results of The Mercantile and General were similar to last year the transfer to Profit and Loss Account showed a significent improvement. The Shareholders' Funds of the Group were increased by some £30m during 1977 by the acquisition

of the shares of The Standard Trust Limited. The Group solvency margin at 31 December 1977 was Bonuses on the Company's participating life and annuity business have b Ordinary Branch Assurances (United Kingdom)

(a) Reversionary bonus: (b) Terminal bonus for policies issued in 1976 (1975) or earlier, payable on claims by death or maturity in the twelve months commencing 1 April 1978. (Examples show niclow.) Year of issue

(£12,40) 1963 1958 £31.00 (£27.80) (£43.80) 1948 £83.60 £118.60 (£96,10) 1928 (£117.40) Industrial Branch Assurances

(a) Reversionary bonus: €2.80% (£2.60%) (b) Terminal bonus for policies issued in 1976 (1975) or earlier payable on claims by death or maturity in the twelve months commencing 1 April 1978. (Examples shown

1963 £28.40 £43.00 (£38.70) 1948 1938 £73.90 (£66.20) £126.00

Group Pensions Business (United Kingdom)

The rate of annual bonus under deforred annuity contracts has been increased to £7.00% compound (£6.50%) and under cash accumulation contracts to £4.90% compound (£4,40%).

The rates of bonus on United Kingdom personal retirement annuity plans have been increased and

The Prudential Assurance Co. Ltd. 142 Holborn Bars, London EC1N 2NH.

Prudential climbs £7.5m. to £31.9m. net

Preliminary Statement for 1977

Turnover including Share of Sales of

Group Profit before Interest including

Associated Companies

Share of Profits of Associated Companies

North, Central and South America ...

Asia, Australasia and the Pacific

Group Profit before Interest

Share of Profits of Associated Companies

Net Loss of Subsidiaries attributable to

Items attributable to Bridon Limited .

(1976 3.95p per share and third interim

Deficit taken to the Group and Associated

Earnings per Share (before Extraordinary Items—Basic ...

grammes there will still be ample capacity.

Companies Reserves (1976 Surplus) ...

Interim 2.3p per share (1976 2.1p per share) Second Interim of 3.843p per share

Interest Payable

interest Payable

Taxation

Profit before Taxation

Profit and Loss Account

Group Trading Profit ...

Profit before Taxation

Outside Shareholders

(after £1.804 million tax)

Dividends—Ordinary Shares

0.0607p per share) ...

Preference and Preferred

Ordinary Dividends

Dividends

Extraordinary Items

Associated Companies

Analysis of Profit

United Kingdom

Principal Products

31st December

£000

3.074

12,570

3,991 1,321

9,139

21,709 3,426

18,283

15.209

3,426

11,783 6,500

18,283

9,400

99

9,499

9,499

1,070

2.042

3,112

3,124

6.375

9,499

18.63p

12

£000

275,131

4572

7,357

15,725 4,114

11,611

9,063 4,114

4,949 6,662

11,617

4,811

873

5.684

3,084

2,600

7,236

2.088

3,324

3.336

(736)

2,600

10.52p

—Diluted

Deterioration of markets and currency trends during the second half of 1977 produced disappointing results. Resulting from a thorough review of all operations, the decision has been taken to concentrate production in certain sections at home and abroad into fewer units, the cost of which has been provided in 1977 under Extraordinary Items. Due to recent modernisation pro-

Present forecasts show a Profit before Taxation for 1978 similar to 1977 and the tax charge should be nearer normal due to the anticipated elimination of unrelieved overseas losses. The

The Board recommend a second interim dividend on the ordinary shares of 3.843 pence per share, payable on 24th May, 1978, which together with the first interim of 2.3 pence per share already paid represents the same rate of dividend as for 1976 taking into account Advance Corporation Tax.

BRIDON worldwide in wire, wire rope, fibre

cordage and related plastics and engineering products essential for developing energy and other natural resources and for the construction, engineering, transportation and distribution industries.

benefits of concentration will be significant in 1979.

12

vestment income on the long-term rates for the first time in several given at 19.38p against 13.38p last funds, together with a slowing in years. The reversionary bonus time and the final dividend of the rate of increase in expenses rate is lifted to £2.80 per cent. of 3.27p takes the total for the year resulted in higher rates of reverthe sum assured from £2.60 per to 5.52p on capital increased by sionary and terminal bonuses cent., and there have been a scrip issue combared with an GCOM a scrip issue, compared with an • comment adjusted 5p last time.

Including preference payments of £40,944 (£15,925) dividends will absorb £543,503 (£465,020).

Transatlantic **Market Trust** cut to £0.14m.

APV up £4m. to £16.65m.

DARD MEXTING

| Suppose of France and Company of the Company of

The full effect of the merger with the refrigeration group Hali-Thermotank in 1976 is revealed in the latest figures from APV. Hall-Thermotank has chipped in over £80m. of the latest turnover figure of £213.4m., against a threefigure of £213.4m., against a threemonth contribution of around
£15m. in the year of the merger.
Its contribution to APV's profits
has been £3.29m., net of loan stock

The directors state that they

cut to £0.14m.

Pre-tax profit of Transatlantic With 70 per cent of turnover Market Trust plunged from overseas, currency movements (£488.914 to £137,795 in the March 9, 1978, year. The result is subject to Jersey tax of £27,559 compared with £39,785 last time.

Directors say the decline in the amount available for distribution was primarily owing to the reduced rate of interest received on sterling deposits, which are reduced rate of interest received on sterling deposits, which are reduced as collateral for the dollar loans financing investment in turnover the balance sheet has and preference dividend £2,443 and a £339m, net of loan stock costs compared with £182,000.

The directors state that they are encouraged by the increase in orders already received this year by the U.K. companies and look forward to a satisfactory year.

Yearly earnings are given at 50,1070 per 25p share. The total dividend is raised to the maximum permitted 6.6763p (5.9774p) net, with a final of (5.9774p) net, with a final of the dollar taking on £80m, worth of extra 1977 total to 7.08539 gross.

After tax of £402,272 (£508,257) remained relatively steady: net

PRINCIPALLY DUE to the extended national lift dispute.

terling deposits, which are retained as collateral for the dollar taking on 580m. worth of extra this day of the dollar taking on 580m. worth of extra the balance sheet has a financing investment in turnover the balance sheet has After tax of £402.272 (£508.257) and financing investment in turnover the balance sheet has After tax of £402.272 (£508.257) and financing investment in turnover the balance sheet has After tax of £402.272 (£508.257) and financing investment in turnover the balance sheet has After tax of £402.272 (£508.257) and £2.443 and Preference dividend £2.443 and Pref English Property tops £9m.

AFTER A transfer of interest opments of £8.7m., and the valuation of £20.15m. compared ation deficit, offset only partially or in the course of development, with £26.05m. previously to by additions to properties of and these are carried in the development properties, pre-tax £46.78m.

Sir Denis says that if exchange projected diminution in valuation rose 24 per cent. from rates had remained unchanged Last year £19m. was deducted for the net assets of the company diminution.

The result came on net property investment income of £36.36m. (£43.22m.), property investment income of £36.36m. (£43.22m.), property dealing profits, less losses, of £1.84m. (£1.75m.), other income of £2.93m. (£4.97m.) and was after the course of £2.93m. (£4.97m.) and was afte

£1.84m. (£1.75m.), other income lieve they have a possible current values.

of £2.93m. (£4.97m.) and was after value some £33m. below this This released properties which figure.

were of a value in excess of the

interest charges of £31.83m. In the low this state of a value in excess of the figure.

A revaluation of properties at open market values was undertaken in the year which resulted in a £11.92m. deficit on book value, leaving a total valuation of the Brussel's market conditions advantageous interest rates, both value, leaving a total valuation of the previous 1972 valuation.

The valuation of North American properties showed a surplus over the previous 1972 valuation, but owing principally to political

value, leaving a total valuation of \$\frac{5472.04m}{2.04m}.

The valuation of North American properties showed a surplus over the previous 1972 valuation, but owing principally to political uncertainties in the Province of Quebec, there was a fall on the review carried out by directors in 1976 for the 1975 accounts.

This accounts for much of the drop in the net assets of the group. Sir Denis Mountain, chairman, says.

Overall, the value of properties of the group ended 1977 at \$\frac{100}{200}\$.

Overall, the value of properties of the group ended 1977 at \$\frac{100}{200}\$.

The properties held by North day reported first quarter profits were not revalued during the and tax against \$\frac{134}{200}\$. The properties held by North day reported first quarter profits were not revalued during the and tax against \$\frac{134}{200}\$. The properties (hotels, retirement three months to January 31, 1978.

In the value of properties of the current year sales are frollowed in appropriate to make provision for any shortfall.

The properties held by North day reported first quarter profits were not revalued during the and tax against \$\frac{134}{200}\$. The mobile homes and for sales and nursing homes and for the current year sales are for the current year sales ar

Reports to Meetings

Lloyds chief defends loans to Chile

countries. No approval was last two years, implied by these loans. Sir Jeremy He stressed that the company's small group of shareholders and said that the question was taken contract in Iran is profitable and that it believed that if the main seriously and he hoped that the will remain so, and mentioned that body shareholders had known of countries would move towards the Iranian debt to the company the "last minute" move a much greater civil liberties. Chile had has been reduced substantially, greater proxy tote would have made some encouraging moves in and variation of prices payments been recorded in his favour. Mr. this direction recently, although are now being received.

Members were told at the most. not far enough, he said.

Sir Jeremy Morse, chairing the Answering a representative ing of Thermal Syndicate that AGM of Lloyds Bank for the first from the National Union of Bank order intake at the beginning of time, said yesterday that loans to Employees who asked about plans the year was slow but improving. Chile or any other country did not for rationalisation of branches, Sir In addition, trading in the first imply approval of the ruling Jeremy said that Lloyds was in a half has been further principally better position than the other by the low level of world trade.

In a long measured reply to major clearing banks, Having had

better position than the other by the low level of world trade major clearing banks. Having had less in the way of mergers where general policy was to lend to anyone who it considered creditworthy. Only occasionally would a loan be refused because of the social or moral harm it might dothe decision was in the hands of the local manager.

Sir Jeremy believed that loans social or moral harm it might dothe local manager.

Sir Jeremy believed that loans could do much that was good such as promoting British exports, improving the living standards of local inhabitants and making profit for Lloyds Rank itself. local inhabitants and making profit tough and would probably have group's order books is a direct for Lloyds Bank itself.

He said that Amnesty Inter- At the meeting of Bath and Mr. H. Ramwell has been

for Lloyds Bank itself.

He said that Amnesty International listed 60 to 70 countries

At the meeting of Bath and Mr. H. Ramwell has been national listed 60 to 70 countries

Portland Group Sir Kenneth Selby, deposed as a director of Cornerwith "oppressive regimes," about the chairman, forecast improved croft, the Coventry-based enhalf of them left wing and half profits for the current year, sincering group, following a politight. Lloyds Bank had some although he did not expect an of shareholders at the group's exposure in a majority of these advance of the magnitude of the countries. No approval was last two years.

restrictions are removed. This follows an unsuccessful applica-

BANK RETURN

	taxable profit of Biddle Holdings.	BANK	RETURN
•	a manufacturer and installer of		
	heating and air-conditioning		Wednesday Inc. (+) or
		_	Mar. 29 Dec. ()
	equipment and lifts, declined		1978 for week
	from £939,688 to £767,400 for 1977,	BANKIN	G DEPARTMENT
	after a small rise from £431,000 to		
	£111,000 at mid-term. Full year	LIABILITIES	
	turnover was higher at £11.44m.	Capital	14,553,000
	against £10.16m.		24,638,217 — 1,159,583
		Special Deposits	-1,243,000,000; —
	The directors state that they	Reserves & Othe	691,173,447 + 116,459,493
	are encouraged by the increase in		
	orders already received this year	7;ct	000,200,000 + 20,500,101
	by the U.K. companies and look		2,572,493,304 + 141,255,697
	forward to a satisfactory year.		
	Yearly earnings are given at	ASSETS	1 !
			2,152,756,088 + 285,646,000
	9.1p (10.7p) per 25p share. The	.\rivanced&Othe	erd i
	total dividend is raised to the	Ales	232,390,361 -139,406,062
	maximum permitted 6.6763p	Premises, Equip	M
	(5.9774p) net, with a final of	& other Sees	173,884,145'+ 34,219'
	4.6763p net. An additional balance,	Notes	13,513,155 - 4,999,293
	if any, will be paid with the next	Coin	143,557;- 15,187
	interim dividend, to bring the	•	(2 F2D 407 204 - 12) 600 cod
			2,572,493,304; +141,258,697
	1977 total to 7.0853p gross.		
	After tax of \$409,272 (\$308,257)	ISSUE	E DEPARTMENT

'3,100,000,000 + 100,000,000

BP proposes to allow foreign directors

Paternal Coles	1 PKT 77A
Profit before sex	2.023,000 2.023,000
Dividends Related	487 987 (49 984 024 102
< Gate.	

NEWBOLD & BURTO HOLDINGS LIMITED

Manufacturers of Ladies' Footwear

	£7000	1976	1: <u>2</u> '(
Turnover	8,578	6,510	5
Net Profit before Tax	468	303	- '
Net Profit after Tax	263	264	
Dividends	84	75	
Earnings per share	8.8p	8.Sp	4
Capital Employed	1,599	1,420	1,
Salient points from the Ste	ilement	by Mr. V.	F. Burte

the Chairman:

Profit for 1977 improved by 55 per cent, over 1976 turnover up by 32 per cent. This, in spite of the maxmum increase in dividend permitted, means that the dividend cover is more than 3 times. Throughout the year strong order book positions wer maintained by all companies and the forward outline

for orders is equally good.

The assets per share, based on book values, are the shown as 53p, and the profit on capital employed nore has now risen to 29.3%. Your company's shares at basis is very sound. All of us look forward to 197 th the than twice covered by net assets and the tracgreatest confidence.

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subscription, now. Exploring for accurate information is rather like exploring for oil: painstaking, expensive work. This time, we think you'll find you've struck it rich.

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	ed (Cheque payable t			
Please invoice			in annual factorial	,,
BLOCK CAPITALS				
Name		Position		
Organisation				
Nature of Business				 .
Address				
Telophono	Date		 	

Members were told at the meet- to the group.

Financial Times Friday March 31 1978

BIDS AND DEALS

Howden to buy rest

It has already announced plans or a major rationalisation of its be completed by mid-1979 will verseas operations while in the I.K. the group is currently Japan and South-East, Asia. Some twolved in several merger nego- 98 per cent of production is exiations—following its acquisition ported to about 30 countries.

It has already announced plans or many appears.

The new plant, which should meet increased demand from Japan and South-East, Asia. Some two ported to about 30 countries.

Beecham has also recently con-

DOULTON

DOULTON

Thoulton and Co. has acquired from R.T.Z. Industries and Solating (Holdings) the minority interest of 21 per cent. of Doulton Glass Industries (Holdings) for mominal stock (98.2 per cent.):

C.S.M. cash. DGI carries on business of the loan stock (98.2 per cent.):

The offer has now expired.

The offer has now expired.

SHIPSTONE/NORTHN. FOODS

BOC takes control of Airco

it increased its holding in January to 49 per cent, and which it at one stage hoped to extend to

With its holding almost at the income

BOC International yesterday announced the purchase for \$37m. Airco Board last December. BOC holding to up to 55 per cent. Imit agreed with the of BOC's desire to raise its share-nounced the purchase for \$37m. Airco Board last December. BOC holding to up to 55 per cent. Industrial gases producer. The industrial gases producer. The industrial gases producer. The all outstanding shares if it is to out to 1981, are based on an it is previous level of 49 per cent. In the meantime its majority inflation rate averaging 6 per cent. The shares are on a consolidate it is position further, average U.S. economic growth of No decision has yet been taken. 4 per cent, per annum and an incompleted BOC's purchases of Airco at the present time."

The British company paid \$445 per Airco share. This compared with \$43 tender offer with which it increased its holding in January to 10 even cent, and which it are cent, and it is to out to 1981, are based on an accomplicate it is to out to 1981, are based on an extending shares if it is to out to 1981, are based on an extending shares it is to out to 1981, are based on an extending shares it is to out to 1981, are based on an extending shares it is to out to 1981, are based on an extending shares it is to out to 1981, are based on an extending shares it is to out to 1981, are based on an extending shares it is to out to 1981, are based on an extending shares it is to out to 1981, are based on an extending shares it is to out to 1981, are based on an extending shares it is to out to 1981, are based on an extendin

Airco's 1978-1981 Ass

MONEY MARKET

Adequate credit supply

Bank of England Minimum

Lending Rate of 61 per cent.

(since January 6, 1978)

Peliminary in dications a small amount of Treasury bills per cent. With events proving pointed towards a substantial direct to the discount houses to the contrary rates tended to surplus of day credit in the surplus which by no means eliminated see-saw peaking at around 6-61 the surplus which by no means eliminated see-saw peaking at around 6-61 the surplus which should appear per cent. before settling to 52-6 invalid Cars should correctly the close.

Progress have (1976—0.95p.)

Production capacity is being utilised on the final Invalid Car contracts. Supplies of spares for the surplus which should appear per cent. before settling to 52-6 invalid Cars should continue for per cent. by the close.

Longer term interest rates lended to supplies of spares for livelid Cars should continue for number of years.

Progress has been made with the production tooling for our the current weaker trend of substantial net take up of 6 per cent.

In the interbank market over nominal in some cases.

Mar. 19 197-	Sterling Certificate of deposits	Intertwee	Loni Authority deposits	Last Auth. negotiable bonds	Finance House Deposits	Company Deposits	Dig valot market tepesit	Tressurt Helis o	hiigibie Bank Blir ф	Fine Track Bills &	ľ
Overaight		5 6	61g-614 614 614-636 614-634 71g-714 8814 914	634 f14 634 v 14 7 c 12 7 ta 634 814 734 814 8		51 ₂	434.6 519.534 578.6 8-618	57g 55g 544 6-5g		- - - - 854 7 7 7 7 -	

Local authorities and finance houses seven days' notice others seven days' fixed. Long-term local authority mortgage rate nominally three years 184-184 per cent.; four years 184-184 per semt. five rears 11-114 per cent. © Bank hill rates in table are buring rates for prime paper. Buring rates for John-month bank hills about hill associated with any new product.

Bridon falls to £11.61m.

say, and the fax charge should be percelation in the control of unrelieved from the concentration will be significant in 1979, they add. The group manufactures wire, wire rope, fibre and plastic products and has regionally activities. engineering activities.



NEI are also now poised to take investing £77,500 in the new nonteps towards compulsory purtage company, by way of a £52,500
This company,

and processors.

The attributable net profit of DGI for 1977 was £2.82m., an increase of 50 per cent, and the proportion applicable to the control of Anston Holdings, the proportion applicable to the control of Anston Holdings, the been sanctioned and has become Brighton-based flats and offices achieved by DGI in 1978, an additional purchase consideration of owned company up to £300,000 may be paid after (Hassocks) Ltd.

GADEK MALAYSIA

The Scheme of Arrangement made between Gadek Malaysia between Gadek Malaysia between sanctioned and has become effective.

Depending on the profit of Anston Holdings, the been sanctioned and has become Brighton-based flats and offices of Dealings in the new shares and director, through his privately stock of Gadek (Malaysia) Berhad issued pursuant to the Scheme will commence to-day. around the world, but, at present levels of demand, this will still leave surplus capacity of around 25 per cent. This, of course, will



Points from the Chairman's Statement

odest improvement in Com pany profits for the year ended 30th September, 1977.

Much of the increase in turnover relates to our acquisition of Unipower Vehicles Limited. manufacturers of firefighting chassis type vehicles.

The need to retain profits for working capital requirements is important. Your Directors will recommend a final dividend of

objective.

We have acquired 70% of Pem Trailers Limited, this subsidiary should contribute a profit of at least £120,000 for their 15 month period ending 30th September, 1978,

The next two or three years will be extremely difficult. Trad-ing should be reasonably profit-able during the first half of this year, profits during the second could be severely affected by the winding down of the Invalid Car contracts coupled with the introduction of ME 3000 which will give the production problems

MINING NEWS

Howden to buy rest of Howden Parsons Francisco Group, the General Parsons Francisco Group, the Group Francisco Group, the Group Francisco Group, the Group Francisco Union Corpn. has found

Difficult ground conditions in

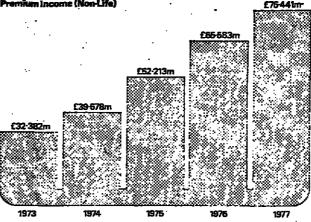
**STATE OF THE PROPERTY OF A P

Hemerdon exploration widens

inition in the properties which had increased the group's meant of the group's meant the shares tumbing to close the group's meant the shares tumbing the group's meant of the group's meant of the group's meant the shares tumbing the group's meant the shares tumbing the group's meant the shares tumbing the group's meant the group's meant the shares tumbing the group's meant the shares tumbing the group's meant the group's m Cornhill Insurance Group

Planned Growth and Increased Profit

_	
1977	1976
£000	£000
72,582	61,339
3,859	4,244
7,716	8,544
	•
681	943
(300)	(725)
7,247	5,647
. 75	_
46	72
7,749	5,937
3,850	2,875
3,899	3,062
	£000 72,582 3,859 7,716 681 (300) 7,247 75 46 7,749 3,850



1977 was another year of controlled expansion for the Group with non-life premium income rising to over £76 million and profit 30% higher than 1976.

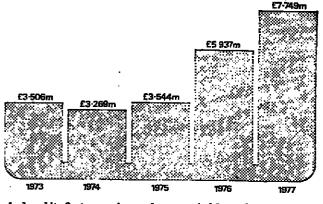
profit 30%, higher than 1976.

UNITED KINGDOM The motor, liability, and engineering accounts all produced a satisfactory underwriting surplus. However, 1977 was a difficult year for the property account and, in particular, for the household section which was the major area of loss. The firemens' strike aggravated the problems of this account and may also have a noticeable bearing on 1978.

OVERSEAS The overall underwriting result improved considerably over 1976 but nevertheless. There was a result loss. considerably over 1976 but, nevertheless, there was a small loss. Sterling's strength in relation to overseas currencies, and in particular the Canadian dollar, limited growth when expressed in Sterling terms. Overseas business written in London produced a very good underwriting result.

MARINE AND AVIATION Market over-capacity, steeply riging marine repair costs and a number of sigling losses.

rising marine repair costs and a number of airline losses contributed to a significant loss on this account. LIFE Further substantial growth was achieved on regular premium income business. In 1977 Cornhill's Life division



declared its first reversionary bonus on 'with-profits' policies and made its first contribution to Group profit.
FINANCIAL

Investment income rose by 28°; to £7.24 million. Shareholders' funds at balance sheet values at the year end amounted to £33.060 million. The solvency ratio, based on market values, remains strong at 57%.
OUTLOOK The differences in the results from the various

territories demonstrates the importance of a wide geographical

spread of business. The expansion of overseas activities will continue in 1978 to improve further the balance between the Group's interests in the United Kingdom and the rest of the With inflation at a more tolerable level, better underwriting margins and more stable economic conditions can be foreseen.

Cornhill plans further expansion and looks forward to 1978 and
the years beyond with confidence,

Copies of the Report and Accounts may be obtained from the Secretary at 32 Cornhill, London EC3V 3LJ.



NORTH AMERICAN NEWS

Ford underpins industry confidence

The company reaffirms its not tall that the substantial disparity of Japanese car sales price increase in January, now hellef that 1778 auto sales, at the three members of Fords in the U.S. market is the price sells for nearly 21 per cent. "about 11m." will be only Office of the Chief Executive, advantage resulting primarily more, slightly lower than last year's Mr. Henry Ford 2 chairman, Mr. from the substantial disparity A leading auto industry 11.19m. Moreover, Ford expects Philip Caldwell, vice-chairman, between Japanese and U.S. wage analyst, Mr. David Healy of the company's price increase in January, now in the U.S. market is the price increase in January, now about 11m." will be only Office of the Chief Executive, advantage resulting primarily more.

Court to rule

next week on

Curtiss-Wright

single shareholder in Kennecott.

the country's largest copper

general Keith Taylor, whose law represents Kennecott,

accused Curtiss-Wright of statu-

assistant attorney

RENEWED CONFIDENCE in declining sales trend of the prethis year. They point out that Motors have recently felt able
the U.S. auto industry that a
vious three months. During a 10ford's record sales and earnings to announce modest price inday period in the middle of the last year were achieved in the creases on their small cars. The
months of decline in the market
adjusted annual rate of a shade
shighlighted by the Ford over 12m, which means that total
Motor Company's annual report.
The company reaffirms its not falf for short of last March's
The company reaffirms its performance.

The company reaffirms its not falf for short of last March's
The company reaffirms its performance.

The company reaffirms its not falf for short of last March's
The company reaffirms its performance.

Canadian Du Pont warns on earnings

11.19m. Moreover, Ford expects Philip Caldwell, vice-chairman, between Japanese and U.S. wage analyst. Mr. David Healy of record truck sales this year of 3.8m. compared with the new peak set in 1977 of 3.875m.

Ford's expectations for the passenger car market are looking a lot more credible following figures which suggest that consumers responded to dealers' sales contests in March in sufficient numbers to slow down the lapanese import competition written both Ford and General analyst. Mr. David Healy of trates. The company's price and Mr. Lee lacocea, president, rates. The company's price day that import sales in report that the U.S. economy imports improved in late 1977. The three executives hint that upward revaluation of the year's \$2.08m. (18.3 per cent. of the year will decline somewhat cars exported to the U.S."

With the dollar having predicts that Chrysler Corporation, which made a fourth quarter the year since these lines were ter loss in 1977, will be in the company's price and Mr. Lee lacocea, president, rates. The company's price and Mr. Lee lacocea, president, rates. The company's price analyst. Mr. David Healy of Drexel Burnham Lambert, estimates to-day that import sales in the U.S. will drop from last upward revaluation of the U.S. will drop from last upward revaluation of the year's \$2.08m. (18.3 per cent. of the year with the upward revaluation of the U.S. will drop from last upward revaluation of the U.S. will drop from last upward revaluation of the U.S. will drop from last upward revaluation of the U.S. will drop from last upward revaluation of the U.S. will drop from last upward revaluation of the U.S. will drop from last upward revaluation of the U.S. will drop from last upward revaluation of the U.S. will drop from last upward revaluation of the U.S. will drop from last upward revaluation of the U.S. will drop from last upward revaluation of the U.S. will drop from last upward revaluation of the U.S. will drop from last upward revaluation of the U.S. will drop from last upward revaluatio

The company is some 13 per cent owned by Du Pont of the U.S. and has nearly completed a \$C390m, expansion programme begun in 1972. It is a major equity partner in the Petrosar petrochemical com-plex at Sarnia. Ontario. Part of its expansion has been financed by the parent company.

MONTREAL, March 50.

DU PONT Canada's earnings and return on investment this year will remain at "unsati-factory levels". A much

stronger Canadian economy is

needed before the company

can effectively use its new ex-panded capacity in fibres, plastics and films, plastic pro-

ducts, packaging and chemicals,

says president Mr. F. S. McCarthy.

Du Pont Canada sees some pointers towards recovery in Canada, including the effects of the discount dollar, higher consumer spending encouraged by recent tax breaks, and generally renewed business confidence.

Goodrich purchase

B. F. Goodrich has agreed in principle to acquire Conti-nental Coureyor and Equipment in a transaction valued at shout S61m., reports AP-DJ from Akron, Under the agreement, each holder of Conti-nental Conveyor's common shares will have the option to receive the equivalent of \$40 in Goodrich Common or Preferred stock or to receive \$40 in each for each Continental share provided the total each consideration does not exceed 49 per cent. of the total con-sideration in the exchange.

ABC \$50m. sale

American Broadcasting Companies is negotiating with Plitt Theaters for the sale of all of ABC's cinema operations for about \$50m, in cash and notes, reports AP-DJ from New York. At the end of 1977 ABC operated 91 single-screen, 79 screen cinemas, giving a total of 258 screens in 11 southern 140 cinemas in the mid-west and mountain and western states. Most of the Plitt theatres were purchased from

Lockheed cautious

Lockheed Corporation's projections indicate earnings from operations in 1978 "will be helow those of 1977" when it earned \$55m. or \$3.71 a share, AP-DJ reports from Burbank. Recently Lockheed has said that earnings for both 1978 and 1979 would be "fairly comparable " with 1977. In the annual report Lockheed did not specify how large an earnings decline it expects this year.

Firestone Lire

Firestone Tire and Rubber said Federal District Judge granted an extension of a temporary restraining order that prevents the National Highway Safety Administration from releasing a survey on original equipment steel-beited radial tires critical of a Fire-stone line, reports AP-DJ from

Following the special meeting yesterday Bahcock and Wilcox president 31r. George Zipf affirmed his intention to stay on as president, reports AP-DJ from New York.

Bahcock will retain its name and a separate corporate identity following the merger into J. Ray McDermott.

SEC may sue Beatrice Foods

STRAIGHTS
Alcan Australia Sape 1999
AMEV Spc 1987
Australia Sape 1992
Australia Sape 1992
Barclays Bank 32pe 1992
Bowater 31pe 1992
Can. N. Raffway 83ne 1986
Creats National Sape 1985
Definiark Sape 1985
ECS 3pe 1997
EIB 33pe 1992
ESS 3pe 1997
EIB 33pe 1992
EMI 44pe 1989
Erresson 4ape 1982
Erresson 4ape 1982
Hydro Oushec 3pe 1992
Hydro Oushec 3pe 1992
ICI Sape 1987
ISE Canada 34pe 1986
Macmillan Bloedel 3pe 1992
Macmillan Bloedel 3pe 1992
Macmillan Bloedel 3pe 1992
Macmillan Bloedel 3pe 1992
National Coal 8d 3pe 1983
Midland Int, Fln. Sape 39
Nortes Korn, Bk. 84pe 1992
Vorploe Sape 1989
Nortes Korn, Bk. 84pe 1992
Port Autonomes 8pe 1991
Prov. Quebec 9pe 1985
Prov. Saskatch. Sape 1988
Reed International 9pe 1987
RHM 3pr 1982
Selection 7st. Sape 1988
Selection 7st. Sape 1989

Skand, Enskilda 99c 1991...

STRAIGHTS

Allied Breweries 10,pc '96 Citicory 100c 1993

Citicorp 10pc 1993
Contraudes \$3.0c 1889
ECS 93pc 1889
ELB 93pc 1988
ELB 93pc 1988
ELB 93pc 1988
Finance for Ind 10pc 1987
Finance for Ind 10pc 1982
Fisons 104pc 1988
Rocentres 104pc 1988
Fors 104pc 1888
Total Oil 94pc 1884

CONVERTIBLES American Express &oc % Ashland Spc 1988 Babcock & Wilcox 63pt 97 Rabenck & Wilcox Sip. '97
Reatrice Fonds 44 pc 1992
Beatrice Fonds 44 pc 1992
Beatrice Fonds 44 pc 1992
Broadway Rale 44 pc 1997
Crimatons 4pc 1997
Crimatons 4pc 1997
Crievron 5pc 1998
Dart 44 pc 1998
Featman Kodak 44 pc 1999
Feoromic Labs, 44 pc 1999
Feoromic Labs, 44 pc 1999
Feoromic Labs, 44 pc 1997
Firestons 5pc 1998 Economic Labs, 43pc 1987
Firestone 3pc 1989
Ford 3pc 1989
General Electric 41pc 1987
Gulfette 63pc 1987
Gulf and Western 3pc 1988
Harris 3pc 1997
Honeswell 6pc 1996
ICI 61pc 1992
IXA 6pc 1997
Inchespe 6-3pc 1992
ITT 44pc 1987
Juseo ppc 1992
Formation Tipe 1990

Mineral growth boosts Agip sales and profits

company of the State hydrocarbons group. Enter Nazionale previous year, while the comldrocarburi (ENI), to-day reported increased profits of
L56.4bn. (some \$66m.) last year
compared with L22bn. in 1976.
Group turnover increased by 18
In 1977 was fibres, with sales

The company, which currently
has a presence in 21 countries. per cent. to L7.008bn. (\$Shn.) on year-on-year basis.

The sizeable increase in pro-fits is chiefly due to the conpany's mineral activities, whose turnover recorded a majoir up-turn last year, and to generally lower cost increases compared

the remaining L15bn, as divi-domestic natural has resources, amonging director of help, has dend.

Raly's total energy requires been appointed chairman of the Agip's overall crude productments has year amounted to new sub-idiary.

AGIP, the main oil operating tion totalled last year 12.7m. 138m, true of all equivalent company of the State hydro-tons practically the same as the representing a 1.2 per cent fair curpons group. Fair Variously company while the course over the prevents tear. This are

rising 7 per cent, in solume but only 4 per cent in salue. Agencies report from Milan, Debt servicing costs of Lire 86bm. (\$100m.) were a major factor in a net loss for the year of the 47 the or some \$53m. of Lire 47.1bn., or some \$53m.

The company, which correctly has a presence in 21 countries has pursued its intense scoular operations and has continued in research activities in the ma-nium sector. And claims the its meaning field at Niverse a

Northern Italy will staff productions some 150 tons a year as from The Board also reported the The Board also reported the setting-up of a separate disting-up of a se

Borel Belgique capital rise

BY OUR FINANCIAL STAFF

eapital by BFrs.200m.—around schools and in catering for large profits in 1977 for the group as \$5.5m.—to BFrs.423.9m. Some companies. BFrs.184m, will be subscribed by Borel International in cash. of the balance in the form of non-repayable loan. The extra company to carry out a restruc-turing plan decided on several nonths ago.

Under the plan Borel has greed with AC Restaurants BV. a subsidiary of the Dutch Ahold group, in sell some time this year its moral and too median the Borel international lost its motel and ten restaurants and thing like B.Frs.50m. on its company is being held at Frs 9. grills on five motorway conces-

IACQUES Borel international is sions in Belgium. The sum injecting fresh funds into its belgian subsidiary. The moved has yet to be disclosed Belgian subsidiary. The moved has yet to be disclosed in Borel international will also sell parts of three of its four Borel Belgique, to increase its capital and complete a programme of financial restructures. Borel Belgique will raise its mass catering in hospitals and compared to Frs.128.1m (SRSIM) compared to Frs.128.

At the end of last December the financiality troubled Borel are after tax and adjusting for International forecast that its two major maneral items. The operating performance in 1977 first is the net gain to Bhone; would result in a loss of more Poulenc arising from the sale than Frs. 90m, against a deficit of ther Frs. 28mm of the sharehold would eveniually move lack into Fra. 1900. at Rhore-Poulem

Borel international lost some-Belgian operations in 1976 and a share.

unchanged. The parent company result

Textiles. Total dividend by the paren

issues

EUROBONDS

Sharp falls

in sterling

THE dollar sector picked up somewhat yesterday, while Datark bonds were significantly better, dealers said. The main feature of the day, however, was the very sharp fall in the prices of sterling bonds for the third last year.

The company, which has been overall loss.

The Government plans to tak a 48 per cent, stake in a ne company to be formed from VMI and shipbuilding industries, made the very sharp fall in the prices a total loss of Fig. 132.9m. (S61m.)

The Government plans to tak a 48 per cent, stake in a ne company to be formed from VMI and shipbuilding industries, made Stork's diesel engine divising the first last year.

The company, which has been overall loss.

The Government plans to tak a 48 per cent, stake in a ne company to be formed from VMI and shipbuilding industries, made Stork's diesel engine divising the company of the company o day running, as sterling itself fell on the foreign exchange markets.

markets.

One new issue has been announced in the dollar sector, \$35m, for IC Industries. In the D-Mark sector, the Spanish issue has been formally announced on the expected terms. Due onto the main reason for the poor of the engineering and shipperformance is the continuing building industries continue nerous are a DM100m, issue for the Asian Development Bank and a DM200m, issue for Light Services. It is still possible that the Nacional Financiera placement may be launched before the week-end.

The main reason for the company, will make a further loss in 1978 the company, will make a further loss in 1978 the company, will make a further loss in 1978 the company, will make a further loss in 1978 the company will make a further loss in 1978 the company, will make a further loss in 1978 the company, will make a further loss in 1978 the company, will make a further loss in 1978 the company, will make a further loss in 1978 the company, will make a further loss in 1978 the company, will make a further loss in 1978 the company, will make a further loss in 1978 the company, will make a further loss in 1978 the company will make a further loss in 1978 the company will make a further loss in 1978 the company will make a further loss in 1978 the company will make a further loss in 1978 the company will make a further loss in 1978 the company will make a further loss in 1978 the company will make a further loss in 1978 the company will make a further loss in 1978 the company will make a further loss in 1978 the company will make a further loss in 1978 the company will make a further loss in 1978 the company will make a further loss in 1978 the company will make a further loss in 1978 the company will make a further loss in 1978 the company will make a further loss in 1978 the company will make a further loss in 1978 the company on the plan for the restructure on the plan for the capital goods week. The Government is the continuing building industries continue on the plan for the capital goods week. The Government is the

reek-end fallen anything up to two points since the launching of the Gestetner offering, and dealers are inevitably questioning the level of demand for the two issues currently on offer for Gestetner and Whitbread.

The terms of the IC industries offering will include a seven-year final maturity (bullet) and an indicated coupon of 9 per cent. Merrill Lynch is lead manager, and there is a special bracket comprising Abu Dhabi Invest-ment Co., Kuwait International nvestment Company and UBAF A pricing of par is expected on the Rautaroukki DM50m, 57 per

ent issue. As far as D-Mark secondary market prices are concerned, dealers reported that the improvement was concentrated on the better quality names, with

little if any improvement in the so-called exotic issues which have heen the biggest problem recently.

Eletrobraz has signed agree ments for a Y10bn, private place-

AP-DJ and Chile.

VMF-Stork losses mount AMSTERDAM, March 30.

VMF-STORK, the troubled Dutch boilers and petrochemical equipengineering group, reports a ment and Stork-Veisen in the sharply increased loss for 1977 light processing division. The and experts to stay in the red total losses of these three coming the support year.

panies was greater than the grou

ast year port includes an interest-free This comprises a Fla.59.3m. loan of Fla.155m. The continuin after-fax operating loss and a depressed state of the market for further Fls.73.6m. in restructure capital goods means VMF-Storing costs. In 1976 the company, will make a further loss in 1978

also affected its Bronswerk cessing, boiler making industric

The sterling bonds have now K.A.B. subsidiary which makes equipment and foundry division

COMPANY ANNOUNCEMENT

ANGLO AMERICAN GOLD INVESTMENT COMPANY LIMITED 'Ancorporated in the Republic of South Africa)

PRIVATE PLACING OF PREFERENCE SHARES

Agreement has been reached for the company to make a private placing on or about 1st July 1978 with certain local institu-tions of R25 million 10² per cent redeemable cumulative preference shares, which will carry no conversion rights. The issue will have an average life of approximately four years. The proceeds of the issue will be used to reduce short-term

borrowings of the company and to finance new investment

to consider the necessary resolutions for the issue of the preference shares by the directors and a circular giving the notice of the meeting and full details will be sent to members in due course. London Office:

40 Holborn Viaduce ECIP. IAJ

March 31st, 1978

SIRDAR INTERIM RESULTS (unaudited)

	January 1978	January 1977	30th June 1977
Turnover	£10,113,000	£8,214,000	£16,435,000
Trading profit Interest	1,065,000 179,000	726,000 219,000	1,550,000
Profit before tax Taxation (U.K. Tax 52%)	\$86,000 170,000	507,000 45,000	1,136,000 97,000
Extraordinary ite	716,000 ms 22,000	462,000 20,000	1,039,000 41,000
Net profit after t	ax £738,000	£482,000	£1,080,000
Earnings per shar pre-tax Earnings per shar	11.0p	6.3р	14.1p
after tax Dividends per sha	· 8.9p	5.7p 1.15p	12.9p 2.79923p
CHATRMAN'S S		· · · · · · · · · · · · · · · · · · ·	

cosults for the 28 weeks to 14th January 1978 show profits before tax increased by almost 75% on the corresponding period of last year.

· Although trading in Europe continues to be difficult, the further improvement in the performance of Hayfield Textiles, an increase in the U.K. turnover of the group of 30% and better margins have contributed to the best half-year results so far achieved by the group.

The high level of sales is being maintained and the improvement in the profit is expected to continue through the second half of this financial year.

SIRDAR LIMITED P.O. Box 31, Alverthorpe, Wakefield, WF29ND, Yorkshire

UNITED STATES DEBENTURE CORPORATION LIMITED Year Ended 31 st January, 1978. Extracts from the Directors' Report.

Dividends and Income

The Accounts The Accounts for the year ended 31st January, 1978 are the first annual accounts following the merger with The London Scottish American Trust Limited and they combine the results of both companies for the year ended 31st January, 1978. The corresponding figures for the year ended 31st January, 1977 have been restated for ease of comparison as though the merger had taken place at the beginning of that financial year.

The after-tax revenue available for Ordinary Stockholders rose by 15.7 per cent. to £2.525 millions. As a result of this improven your Board are pleased to recommend that the total net dividend per stock unit for the year be increased by 15 per cent, to 3.52p (1977: 3.06p). This rise compares with an increase of 9.9 per cent, in the United Kingdom inflation rate as measured by the Retail Price Index. It is also gratifying that this rate of dividend has been possible against a background of continuing 10 per cent. dividend restraint in the United Kingdom, It is interesting to note that over the last five years, your dividend rises totalled 84.3 per cent. compared with a 64.2 per cent. rise in the notional dividend on the *Financial Times* All Share Index. Going back as far as 25 years, the dividend after taxes at the standard rate received by a holder of 100 Ordinary Shares increased by 743 per cent. We earnestly hope that the Government will remove dividend restraint and that stockholders will once again receive a full reward for their investment in British companies. To restrain the rale of dividend that a company may pay is to meddle with a tundamental principle whereby stockholders are fairly remunerated for the use of their capital and rewarded for the risks involved. To continue dividend restraint is to continue to reduce

many private investors who have no other source of income.

Net Assets
The percentage of your Company's total assets invested in the
United kingdom rose to 66.8 per cont. (1977: 57.5 per cent.) whilst the percentage in The United States of America decreased to 28.5 per cent. (1977: 35.7 per cent.). This fall in the American content occurred not because of a policy on our part to reduce it, but simply because of the disappointing performance of the American stock market relative to that of the United Kingdom, Indeed, whilst the Financial Times All Share Index increased by 22.5 per cont., the Standard and Poor's Composite Index, as . adjusted for movements in the investment currency premium and the exchange rate, fell by 22.6 per cent. On the same basis, the Toronto Composite Index fell by 18.4 per cent. Compared with these movements, the value of your Company's United Kingdom portfolio increased by 17.8 per cent., and the North American portfolio fell by 20.3 per cent.

the real income of pension funds, charitable organisations and

The pound sterling exchange rate against the American dollar surged by 13.9 per cent. However, this strength in the pound, whilst nationally most acceptable, reduced the profitability of British companies involved in exporting or operating overseas. For this principal reason, the shares of such companies tended to under-perform the Financial Times All Share Indox. Since it is our long-term policy to hold an above-average proportion of this type of company, it therefore follows that our United Kingdom portfolio was similarly affected.

We are glad that the British Government has at lest removed the investment dollar premium surrender penalty. This will make for a more flexible management of your overseas investments, and will mean that changes within the portfolio will be considerably cheaper to effect.

Main Features	1978	1977
Gross Revenue	£4,604,895	£4.150.534
Per Ordinary 25p Stock Unit :		_ 1,100,100
. Earnings—Basic	3.77p	3.37p
Earnings—Fully diluted	3.74p	3.29p
Dividend	3.52p	3.06p
. Net Assets	£77.684,414	£76,879,422
Net Asset Value per		
Ordinary 25p Stock Unit :	•	
Basic	106.2p	105.4p
Fully diluted	105.7p	104 50

The Annual General Meeting will be held on 3rd May, 1978

BY OUR OWN CORRESPONDENT

Quinn said Judge behind Hertz this year as the

Carter attacks steel price rise

PRESIDENT CARTER and the that so small an increase would additional costs for services, in-president of America's largest not attract opposition from the cluding finishing the steel.

staging a proxy battle for control of Kennecott Copper Corporation by noon on Monday.

The State of Utah requested the temporary restraining order (which was issued on March 21), and also sought a preliminary injunction against Curtiss Wright accusing the company of hoth he and the President hoped violating a Utah law by failing to notify the State 20 days in advance of a major stock purious advance of a major stock purious and to the size of the advance of a major stock purious and to the size of the company would reconsider to the company would to the effect that it is not follow-resist any attempt by the federal government to force it to roll raise prices by around \$5.50 a corner from its projected loss ton, or close to the 1 per cent. For the first quarter of 1978, He administration walter Mondale announced that the company would be profitable in the second was fair.

The Company National Steel, compared with the second half to the effect that it is not follow-resist any attempt by the federal government to force it to roll raise prices by around \$5.50 a corner from its projected loss ton, or close to the 1 per cent. For the first quarter of 1978, He administration walter Mondale announced that the company would be resist any attempt by the federal government to force it to roll raise prices by around \$5.50 a corner from its projected loss ton, or close to the 1 per cent. For the first quarter of 1978, He administration of the first quarter of 1978, He said that the company had turned the company of the company is projected loss to the effect that it is not follow-resist any attempt by the federal government to force it to roll raise prices by around \$5.50 a corner from its projected loss ton, or close to the 1 per cent. For the first quarter of 1978, He administration of the second would be predicted that the company of the first quarter of 197

the 60 days prior to March 21. to . The president's stance on the panies engage in a variety of dis- a variety of other husinesses bring its total holding to 9.9 per U.S. Steel increase has surprised counting procedures for their including chemicals, was profitcent, which made it the largest some steel analysts, who thought customers, and there are varying able.

SALT LAKE CITY, March 30.

JUDGE David Winter of the steel company, United States Administration, in spite of its Third District Court said to-day Steel, clashed publicly to-day growing sensitivity to the inflat that he would definitely rule on over the 2 per cent, increase in whether Curtiss-Wright Corporal steel prices which the company tion will be prevented from announced yesterday.

The steel price dispute has add that current demand for been further complicated by a staging a proxy hattle for control Mr. David Roderick U.S. statement to-day from the third Steel has increased substantially and Kennecout Conner Corporation of America's largest not attract opposition from the ciuding annual guessies.

Underlining the rationale for the inflation issue.

The steel price dispute has add that current demand for been further complicated by a statement to-day from the third. Steel has increased substantially and Kennecout Conner Corporation of America's largest not attract opposition from the ciuding annualing measure could be underlined for the inflation issue.

The steel price dispute has said that current demand for been further complicated by a substantially of Kennecout Conner Corporation of America's largest not attract opposition from the ciuding annualing measure in the inflation issue.

chase. Curtiss-Wright bought 6.9 President had himself termed the predict however. Whatever the making operations, although per cent, of Kennecott's shares in \$10.50 a ton increase excessive, published list price, steel com- overall the company, which has

NBC slide fails to slow RCA accused Curuss-wright of Statutory fraud, and said it was trying
to emasculate Utah's largest
NATIONAL Broadcasting Com- in January by recruiting the RCA earned a record \$247m. or
asset. Kennecott is Utah's
largest civilian employer and
taxpaver.

BY OUR OWN CORRESTORDER.

NATIONAL Broadcasting Com- in January by recruiting the RCA earned a record \$247m. or
pany, firmly lodged in third place American Broadcasting Cor. \$3,23 a share in 1977, but NBCs
in the U.S. television network poration's top programmer with profit share dropped from 35.1
the "Midas touch," Mr. Fred per cent to 32,4 per cent. Mr.
Griffiths forecast a very strong

Griffiths forecast a very strong

attorney ratings, is expected to drop Silverman.

Winder's temporary restraining RCA Corporation's chief profit credited with taking ABC from RCA as a whole, but warned that number three to number one in there had been an "appreciable" of the ratings better the restraining and the restraining received the restraining and the restraining received the restraining received with taking ABC from RCA as a whole, but warned that there had been an "appreciable" the ratings better the ratings better the restraining received the received t

protect entrenched management at Kennecott. He also said the Mr. Edgar Griffiths's RCA's two years and RCA is hooing he order gives Kennecott an unfair advantage in preparing for the annual meeting in May.

AP-DJ

number three to number one in there had been an "appreciable" the ratings battle in just over the rating ba

Coal strike hits Ashland NEW ORLEANS, March 30. ASHLAND OIL anticipates "sig- in the weather and a trend nificantly lower earnings" in the towards improved earnings from second quarter ending to-morrow chemicals and oil and gas exthan a year ago because of a ploration should allow Ashland sharp drop in oil refining and to "recover some of the ground

In the 1977 fiscal second fiscal year will equal the \$164m. quarter, Ashland earned \$28m. or \$5.60 a share on revenue of Mr. Atkins said settlement of \$5.05bn. reported for the prin-

PHILADELPHIA, March 30.

share, in the year earlier quarter, settlement of claims resulting according to Mr. Walter Lahey, from the flood of a company dam director of corporate relations. in 1972. It also included a special Mr. Lahey said that sales charge of 85m. relating to the would be sharply down in the Government's anti-trust case first quarter from the \$403.5m. against Brink's, which is 85 per

marketing profits and problems lost during the first two created by the coal strike, accord- quarters." ing to Mr. Orin E. Atkins, chair- However, the chairman did not

the coal strike, an improvement year.

in the 1977 first quarter because cent. owned by Pittston. the company's coal division has AP-DJ

Pittston expects first quarter loss

PITTSTON, reflecting the close-been closed down for the last stone line, reports AP-DJ from down of its coal operations three months.

because of the coal strike, Net income for the full 1978 estimates that it will have a loss year will not match the \$71.3m.

Babcock merger

in the first quarter ending or \$1.90 a share in 1977. The to-morrow compared with net 1977 net income included a income of \$23m., or 61 cents a \$3.9m. special charge relating to

BEATRICE FOODS indicated in its questionable payments require internal measures by the that the nearly \$24m in question report of March, 1977.

able transactions is disclosed last "An injunction proceeding" is of questionable payments. "An injunction proceeding" is of questionable payments. The Securities and Exchange Comsumply take, Beatrice said in said it gave customers in 15 its latest filing. The SEC has States questionable discounts previously obtained more than totalling \$20.3m. during a period stock registration statement filed with the SEC, that it has been against companies accused of October 31, 1976. The company holding discussions with the Commaking questionable payments, also said it overbilled foreign beginning of an SEC staff in the defendant companies in same period. The overbillings beginning to the findings of an SEC staff in the defendant companies in same period. The overbillings of same period of the provisions of Federal currency or tax laws, the companies and Chile.

covered "one or more" of the provisions of Federal currency or tax maters described by the company Securities Law. The orders often pany indicated. SELECTED EURODOLLAR BOND PRICES **MID-DAY INDICATIONS**

Br. Columbia Hyd. 7 pc '83
Can. Pac. 83pc 1884
Dow Chemical Spc 1986
ECS 51pc 1989
EEC 75pc 1989
EEC 75pc 1993
EEC 75pc 1994
Enso Gutzeit 81pc 1984
Cotaverhen 7 pc 1862
Mochum Spc 1883
Michelin Sipc 1883
Montreel Urban 83pc 1981
New Brunswick 8pc 1981 Montreel Urban Sipe 1931
New Brunswick Spc 1934
New Brunswick Spc 1934
New Brunswick Spc 1934
New Rruns, Prov. Sipe '33
New Zealand Sipc 1939
Norsk Hydro 77pc 1832
Norsk Hydro 77pc 1832
Norsk Hydro 77pc 1832
Norsk Hydro 3pc 1937
Norway 71pc 1932
Singer Ripe 1937
Singelsh State Co. 77pc '32
Stredish State Co. 77pc '32
Telmer 91pc 1934
Telmer 91pc 1934
Volkswanen 72pc 1937
May : 34 STERLING BONDS

FLOATING RATE NOTES liank of Tokyo 1984 7 15 to De Credit Lyonnais 1392 Spc . DG Earth 1982 71516 pc ... DG Earlik 1982 71246 pc GZB 1981 1913 9125 pc 1ml. Westmastr '84 71546 pc Lagds 1983 720c LTCB 1985 8pc Midland 1987 71146 pc GRB 1983 750c SNCF 1985 Mpc Std. and Chird. '94 71148 pc Wms. and Glyus '84 8146 pc Source: White, Weld Sc

Owents fillings 4-pp 1887

J. C. Penney 4-ine 1881
Reviel of 4-pp 1887
Revield Atope 1889
Sandt & 6-pp 1889
Sandt & 6-pp 1889
Secry Rand 4-pp 1887
Toxaco 4-pp 1887
Toxaco 4-pp 1887
Toxaco 4-pp 1882
Video Carbide 4-pp 1882
Video Carbide 4-pp 1882
Warner 1 appliest 4-pp 1882
Warner 1 appliest 4-pp 1882



Precious metals the one bright spot for Degussa

hemicals concern can draw from is current business performance. edded Herr Paul Ungerer as seen, he added.

Looking back at last year's foreign-based operations if the eart, said that without a 30 per business performance in the concern was to avoid paying ent. increase in precious metals chemicals sector, sales were double tax on its profits.

ales, overall turnover for the enhanced by special factors As previously announced the aften by 2 per cent. against ted this year. Exports, excluding

HE RISE in the price of preious metals has lifted Degussa's price for gold has risen by 15
urnover by 13 per cent, during per cent, and that of silver by
the first five months of the curent business year which ends in
spitember.

However, this is just about the
However, this is just about the
nly source of satisfaction that
the same time the U.S. dollar
the frankfurt-based metals and
themicals concern can draw from

March this year, Degussa's sales
turnover in 1976/77 rose by 5.4
turnover in 1976/77 r

Vorld demand for its chemicals price of precious metals, earn. Hans Juergen Baumann said this roducts remains slack while ings this year were under the was in large part a direct result roducts remains slack, while ings this year were under the was in large part a direct result previous year's levels, said Herr of West German corporation tax ownwards course of the dollar lecker. At this point, no short reform, which also meant that the Herr Gert Becker, who succeeded Herr Paul Ungerer as seen, he added.

er cent.

not least as a result of the fall return to shareholders
From January 1977 to late in the value of the dollar.

DM13.28 per share.

But despite the increase in the from DM41.5m. to DM36m. Dr

allen by 2 per cent. against ted this year. Exports, excluding dividend is DM5.50 per DM nominal share-compared with

Convertible from Commerzbank

BY OUR OWN CORRESPONDENT

4ODESTLY lower profits after reserves bringing the parent DM250m to be offered to share commerciank, the third largest 1977 totalled DM212.7m. against four basis.

d'Germany's joint stock banks, the previous year's DM225.2m. Approval is also being sought.

A dividend of DM8.50 per Out of this some DM102m, was for the bank's Luxembourg subhare, against DM9 per share is allocated to reserves, bringing sidiary, Commerciank Internatecommended. Shareholders who the group's own resources up to tional SA, to go ahead with a pay German taxes will receive DN2.2Shn.

DM100m. option loan. This will DM13.2S. The dividend payout The bank is seeking to increase be a Deutsche Mark foreign loan. mounted to DM108.4m.—about its authorised capital by DM150m. with a tax free coupon. No sub-be same sum as for 1876. Again to DM244m, and also seeking an scriptions rights for shareholders ome DM50m. was allocated to proval for a convertible loan of are foreseen.

ax and proposals for an issue bank's own resources, up to holders on a one to three basis, if convertible bonds by way of DM2.078bn., about \$4.2bn.

The loan will be convertible into ights were unveiled today by Banking group net profits in the bank's shares on a one to

MEDIUM TERM CREDITS

Rise in activity in Gulf area

ocused on the Gulf area. A than had hitherto been expected, nandate to arrange a two ranche loan for Qatar has now seen awarded to a group of four tanks. London bankers also report that Gulf International 3ank will be lead manager for a 860m, loan for the Bahrain Oil company, though it s not yet clear whether the unandate has been formally stued.

A decision on a mandate for he United Arab Shipping Company's \$100m. Ioan is now the mandate to arrange the latter tranche is that it will hatton. The terms of the loan will include a ten-year maturity (with five years' grace before repayments start), and a margin over inter-bank rates of \(\frac{1}{2} \) per cent. For the first four years and \(\frac{1}{2} \) for the first four years and \(\frac{1}{2} \) for the latter tranche is that it will be in two patterns of the loan will be in two parts: The bulk of the inter terms of the loan will be in two parts: The bulk of the inter-years of the loan will be in two parts: The bulk of the inter-years of the loan will include a ten-year maturity (with five years' grace before repayments start), and a margin over inter-bank rates of \(\frac{1}{2} \) per cent. for the first four years and \(\frac{1}{2} \) for the first four years and \(\frac{1}{2} \) for the latter tranche is that it will be in two parts: The bulk of the inter-years of the loan will include a ten-year maturity (with five years' grace before repayments start), and a margin over inter-bank rates of \(\frac{1}{2} \) per cent. for the first four years and \(\frac{1}{2} \) for the first four years and \(\frac{1}{2} \) for the first four years and \(\frac{1}{2} \) for the first four years and \(\frac{1}{2} \) for the first four years and \(\frac{1}{2} \) for the first four years and \(\frac{1}{2} \) for the first four years and \(\frac{1}{2} \) for the first four years and \(\frac{1}{2} \) for the first four years and \(\frac{1}{2} \) for the first four years and \(\frac{1}{2} \) for the first four years and \(\frac{1}{2} \) for the first four year

expected imminently, and it financing has been awarded the past four.

N A week which has generally seems that the terms will be jointly and equally to Abu Dhabi seen quiet, the main interest has more favourable to the borrower Investment Company, Chase Manocused on the Gulf area. A than had hitherto been expected, hattan Ltd., Gulf International

pany's \$100m. loan is now The mandate to arrange the three years and } per cent. for

Hungary to invest in the West

Arbed to spend heavily

Arbed has been able to take control for 1977 is exclusively based on trol over virtually the entire steel industry in the neighbouring samples in manufacturising or rading of machinery, telecomnumications, electronics and imparatus would be the chief argets for such acquisitions by libotinvest, it is thought.

Interage, through the Luxembourg company, would try to taking control over Metallurian access to the products and erhology of the companies in the products and chief with his contribute to a West-East transfer of technology.

Arbed has been able to take conforming for 1977 is exclusively based on trol over virtually the entire steel for 1977 is exclusively based on trol over virtually the entire steel for 1977 is exclusively based on trol over virtually the entire steel for 1977 is exclusively based on trol over virtually the entire steel for 1977 is exclusively based on trol over virtually the entire steel for 1977 is exclusively based on trol over virtually the entire steel for 1977 is exclusively based on trol over virtually the entire steel for 1977 is exclusively based on trol over virtually the entire steel for 1977 is exclusively based on trol over virtually the entire steel for 1977 is exclusively based on trol over virtually the entire steel for 1977 is exclusively based on trol over virtually the entire steel for 1976 when small profits had to be augmented to allow dividend payments.

AP-Dow Jones for the form of the takeover is to augmented to allow dividend payments.

AP-Dow Jones for 1977 is exclusively based on trol over 1975 and 1976 when small profits had to be augmented to allow dividend payments.

AP-Dow Jones for 1977 is exclusively based on trol over 1976 when small profits had to be augmented to allow dividend payments.

AP-Dow Jones for 1977 is exclusively beautiful payments.

AP-Dow Jones for 1976 when small profits had to be augmented to allow dividend payments.

AP-Dow Jones for 1976 when small profits had to be augmented to allow dividend payments.

AP-Dow Jones for 1976 when sma

". . LUXEMBOURG, March 30. PLANS to spend something like aimed at co-ordinating product

LUXEMBOURG, March 30.

THE Hungarian authorities have stablished a holding company in uxembourg for the purpose of icquiring major interests in Western European companies.

The holding company, Globnivest S.A. was entered on the uxembourg trade register on flarch 7 It is capitalised at 30.000 and owned by Interag, the Hungarian state trading irganisation.

According to the entry in the series of the serie

hus contribute to a West-East Luxembourg and annual crude from higher sales. aided by ransfer of technology.

The Hungarians are also trying tons. Arbed confirmed reports applied in recent years. They o create a permanent market for that the company is in contact added that 1977 was generally after of their exports, especially with three steel-making comfree of major product shortages in mufactured products, by panies in the Belgian area and periods of industrial unrest means of long-term sales constructed around Charleroi on a "contact with Globinvest affiliates, operation" agreement.

Such co-operation would be local crude oil in 1977.

Goodrich to cut stake in Yokohama Rubber

By Douglas Ramsey

TOKYO, March 30. JAPAN'S number two tyre maker, Yokohama Rubber, con-firmed at its annual meeting this afternoon that its top shareholder, B. F. Goodrich of the U.S., will begin by the summer to phase down its 33.6 per cent. stake in the company. which recorded a net loss equivalent to about \$15m. last

The meeting was given details of the company's losses in 1977. Sales were up 5.3 per cent to Y148bn. (some \$665m.) but the company suffered regular losses of Y2.7hn. (up Y461m. on 1976), primarily as a result of continued "depressed prices" in the Japanese market for rubber products. On top of its regalar losses, the company also posted "special" losses of Y3bn. on the recall of defective tyres. and of a further Y800m. or so on disposal of property and in other areas. other areas.

To cover the tyre-quality losses, Yokohama Rubber hived off assets or withdrew from special provisions inside the company a total of Y2.9bn. Of this, Y511m. came from the sale of securities. By contrast, such sales had been marginal in 1976, despite Yokohama Rubber's already-high level of losses at that time.

As a result, Yokohama Rubber was able to reduce its net losses for the term from what would otherwise have been more than a Y6bn, loss (without the special sales and transfers on non-onerating account) to Y3.3hu.—an increase of V906m. on the company's net loss in 1976.

Yokohama's financial plight is apparently continuing in the first half of 1978, according to sources inside the comment. and makes for a grev backdrop to efforts by B. F. Goodrich to rearrange its shareholding. For now, the American company has said that it will eradusily phase down its stake from 33.6 per cent. to 19.7 per

The reason for the reshuffle appears to be B. F. Goodrich's desire to deconsolidate its Japanese subsidiary at a time when its losses are mounting. By reducing Its stake below under 20 per cent., B. F. Goodrich would not need to disclose as part of its U.S. consolidated results its share of Yokohama Rubber's losses.
Negotiations for transfer-

ring the first 4 per cent. tranche of B. F. Goodrich's shares are already underway with Yokohama Rubber's lead-ing banks, notably Dai-Ichi Kangyo Bank (DKB). It has been tacitly agreed that the first tranche will be taken up by DKB, the Industrial Eank Japan, Asahi Insurance and other major shareholders, rather than by resorting to outside partners.

But some confusion has resulted from DKB's role since it already has a 4.4 per cent. stake in the company and, under Japanese law, must keep its stake to 5 per cent. or less.
Therefore, although DKB is primarily responsible for over-seeing Yokohama Rubber's fiances, it caunot take a major portion of B. F. Goodrich's shareholding without a special exemption from the Ministry of Finance. of Finance.
Although the matter will not

cause major problems for the initial transfer of 4 per cent. of stock (much of which can go to fellow members of the loosely-knit Furukawa industrial group, to which Yoko-hama Rubber belongs), the bank's ceiling may force the company to turn to new share-holders for help in absorbing the nearly 14 per cent. of Yokehama Rubber's shares which the American company wants to give up.

Sekisui Prefab Homes' after tax profit rose from Y8.45bn. to Y8.54bn. (S3.8m.) in the year ended January 31 last, reports Reuter from Osaka Sales totalled Y261-5bn. (\$117m.) against Y237-8bn. previously. An unchanged dividend of Y15 is declared.

Foreign drug companies face call to Indianise

NEW DELHI, March 30.

THE INDIAN government has rejected a recommendation to nationalise foreign drug companies operating in India. It has however, called on those companies making "low" technology items to reduce their equity holdings to 40 per cent. thus bringing them in effect within the scope of the Foreign Exchange Regulations Act that defines the framework of most foreign investments.

Exempted from the new rulings announced by Mr. H. N. Bahuguna, Minister for Petroleum and Chemicals, will be companies manufacturing what are considered as "high" technology drugs. They will be able to maintain a maximum equity holdings of 74 per cent.

Of the 45 foreign drug companies counted for 42 The new policy envisages no further expansion in capacity by bulk drugs and formulation was when total production was bold medicines, a freeze in the price of 100 bulk drugs and the particular and the production of brand names on five price of 100 bulk drugs and the price of 100 bulk drugs and the production of the nation of the fear Bahuguna also declared that to five required to invest 20 per cent. The government is to set up a committee to identify those expressing concern to-day, however, at the requirement in the reduction was wall the production.

The new regulations follow the production of the fear beautiful medicines, a freeze in the production of 100

of the 45 foreign drug comtions. Some describe it as a holdings with IBM Coca Colapanies operating in India. 13 are thinly veiled attempt to ensure The cumulative effect is likely British (including Glaxo and government control over the to discourage the flow of ne Boots) and 18 American. In industry. foreign investment

Walker share issues plan

BY JAMES FORTH

holders following a sharp lift in profit for the December half-year.

At the same time the flour and baking group Allied Mills has agreed to sell its 25 per cent. 22 per cent. an there was a the annual rate will be held at stake in Walker to the New marked improvement in sales, last year's 6.5 cents on capital primarily for the domestic market increased by new share issues.

Refrigerating. The deal is subject to approval by Australia's For the current half year it shares at 95 cents each to

Walker directors said that they believed the acquisition by concerned at prices being BHP closure Waitaki would bring substantial obtained for beef on many inter material advantages to the com-national markets. pany. These would include access to Waitaki's widespread

export marketing organisation and its highly developed techheepskin treatment

The directors said they were

While there had been a major increase in rates for beef sold to the U.S., large quantities were niques in lamb processing and being sold-often to countries well able to afford higher prices

is one of New —at rates down to 50 per cent. Zealand's largest companies with of those for the U.S. The average shareholders' funds of SNZ80m. export price still resulted in it owns nine major meatworks "deplorably low" incomes from and has many other diversified many specialist beef producers, activities. particularly those marketing

Walker boosted profit for the export type cattle. A further

AUSTRALIA'S largest meat December half-year by 57 per concerted effort was needed by group, J. F. Walker plans share cent. from \$A1.1m. to \$A1.76m. Government and industry to issues to institutions and share- on a 30 per cent, lift in sales to reduce low-priced selling to some holders following a sharp lift in \$A75.3m.

Refrigerating. The deal is subject to approval by Australia's ket.

For eight Investment Review Board and the relevant New Zealand authorities.

The proposed sale which is amicable will realise about \$3.44m. (\$4.6m.) for Allied Mills.

Walker directors said that the there is the domestic mar. Increased by new share issues. It is proposed to make a private issue of 1.45 million is shares at 95 cents each to appeared that cattle slaughtering in Queensland and New South This will be followed by a one-for-six rights issue at 70 cents. The issues will raise a total of \$3.33m.

Broken Hill Pty (BHP) is to close its Whyalla shipyards at the end of July when work on the last vessel to be built there is completed, Reuter reports from Adelaide. The yard is presently building a BHP coal

BHP says it is trying to place as many of the 700 workforce at the yards as possible in jobs at BHP Whyalla steelworks. Whyalla is the last remaining yard in Australia building large vessels, the company noted.

Hongkong ... Land pays record dividend

By Daniel Nelson

HONG KONG, March 30. HONG KONG LAND, which dominates the colony's select central district but has been steadily diversifying overseas, has boosted its post-tax net profits for 1977 by 14 per cent. and is recommending a record dividend. The company also anticipates higher profits and dividends for 1978, with developments planned and under construction ensuring "strong future earnings growth."

he profit figure was SHK229.8m. (SUS.49.9m.) for the year to December 31, up from SHK201.7m. in 1976. Earnings per share also increased 14 per cent.. from 42 to 48 cents. in line with an average annual compound growth rate of 151 per cent. between 1972 and 1976

As a result of the continued improvement in group earnings, a record dividend is recom-A final of 26 cents, raising the total from 33 to 38 cents a share. This represents a 15.2 per cent. dividend increase, with the payment covered 1.26 times. Dividends increased 11 per cent. annually between 1972 and 1976.

The directors state that the group's financial resources are soundly based and sufficient to meet current requirements, and have been supplemented by a \$HK300m, international bond issue during the year. The bonds were issued in bearer form by the company's wholly-owned subsidiary Bermuda, Hongkong International.

On recent major developments, Hong Kong Land reports that Gloucester Tower, the new 45storey commercial building in central district, is now under construction and will add 600.000 square feet of lettable space by mid-1980 The group's SHK600m, township in Pokfu-lam is already 65 per cent. sold, and the first phase, con-sisting of 1.992 flats, should be ready for occupation by mid-1978.

The 14 per cent. profit rise fulfils expectations of some analysts' who forecast that profits will increase by about 15 per cent. a year with a considerable jump in 1980-82, when profits could be in the \$HK400m.

Offshore fund launched

Asia Capital Fund, has been by wealthy investors.

launched here by an influential. Another problem for the POSB

the principal Shareholders of the closed-end fund is seen as a move to deploy part of the substantial of the surpluses built up by the bank venture are Daiwa Securities in investments outside of Singacompany of Japan, the semi-State Development Bank of

AN OFFSHORE investment fund, used as a source of tax avoidance

launched here by an influential. Another problem for the POSB group of Japanese and local in is finding uses for its funds and stitutions to channel substantial the launching of the Asia Capital funds from Singapore into Japa Fund, which is incorporated in nese securities and Asiadollar Fund, which is incorporated in the Cayman Islands, is seen as one way round this. The fund will be "floated to investors in Singapore and elsewhere," a statement said.

in investments outside or Singa- company of Japan, the semipore.

State Development Bank of
In an attempt to damp down Singapore, DBS-Daiwa Securities
the almost embarrassingly large International, a merchant bank,
flow of public funds into the and United Overseas Bank, one
POSB, the Singapore Finance of the "big-four" Singapore
Minister, Mr. Hon Sui Sen, last banks. These and the POSB are week announced he was consider also shareholders in another coming ending the tax-free status on pany, Daiwa and Partners Asia deposits with the POSB, which Capital Management Company, yield 5 per cent, interest and which will manage the Asia which, it is alleged, are being Capital Fund.

Strong gain at China Provident

BY OUR OWN CORRESPONDENT HONG KONG, March 30.

diary, China Provident, increased son-Whampoa Dock merger docuits consolidated profit for 1977 ment at SHK406m.—particularly by 178 per cent. to SHK50.6m. a commercial-residential develop—(SU.S.11m.), after minority ment with 1,582 flats, all of which interests and tax, from SHK18.2m. have been sold in 1976. This is some SHK10m.

more than the forecast at the half-way stage, when net profit investments totalling \$A27.3m.
was 51 per cent up at \$HK6.5m. together with \$A22.1m. to be

of 72 per cent. over 1976.

HUTCHISON Whampoa subsi-interests-valued in the Hutchi

The total available for distribu-tion is \$HK48.1m. and the final dividend will be 35 cents making a total of 50 cents, an increase to satisfy Woodside Petroleum's of 72 per cent. over 1976.

Cargo handling earnings appear reports Reuter from Melbourne. to have made a larger contribution, but the main profit boost is have a paid capital of \$A240m. apparently from property 50-cent par shares.

Dfls. 40,000,000.— 6% bearer notes 1973

due 1977/1980

BANK MEES & HOPE NV

before) As provided in the Terms and Conditions of the above mentioned notes Redemption Group No. 2, amounting to Dfis. 10,000,000. has been drawn for redemption on March 21,

Bank Mees & Hope NV (Central Paying Agent) in Amsterdam

Bank Mees & Hope NV in Hamburg Banque Générale du Luxembourg S.A.

Neue Bank A.G.

March 31, 1978

This advertisement is issued in compliance with the requirements of the Council of The Stock Exchange. It is

Authorised M\$3,500,000

Share Capital issued and fully paid in Shares of MS1 each

Loan Capital

10 per cent. First Mortgage Debenture Stock 1983/88 M\$2,910,929

The Council of The Stock Exchange has admitted all the above 2,868,529 issued Shares of M\$1 each and all the above Debenture Stock of Gadek (Malaysia) Berhad to the Official List. Particulars relating to Gadek (Malaysia) Berhad are available in the statistical service of Extel Statistical Services Limited and copies of such particulars may be

> de Zoete & Bevan, 25 Finsbury Circus, London, EC2M 7EE.

A success story with a future

BY DAI HAYWARD IN WELLINGTON

FUMORROW. New Zealand is cheduled to merge its two state-winded airlines, the international mage went up from Sam tone indicated in the internal airline National striways Corporation.

This politically inspired move as also a big jump in specially from those associated with the internal service, but the internal service, but the internal service, but the internal service with a seed of the profit in each follar of labinet decided on the merger.

BY DAI HAYWARD IN Wellington operation in operation and is likely to become more so with the international carriers more so with the international carriers of international carriers both airlines to offer a daily service in the same DC 10 aircraft has led to renewed demands in onto only has a high reputs-now landing at Auckland. Last vice in the same DC 10 aircraft has led to renewed demands in one only has a high reputs-now landing at Auckland to London. Air New Zealand crews operate the meters.

There was also a big jump in the profit margin It represents the profit in each follar of vith the internal service, but the lability of the profit in each follar of lability of the profit in each follar of lability of the overall profits.

There was also a big jump in the profit margin It represents the overall profits.

There was also a big jump in the profit margin It represents the profit in each follar of vith the international and domestic earliers to Los Angeles where it is taken over by British Airways which enables cent. In fares between New Zealand the U.S. This act now landing at Auckland. Last vice in the same DC 10 aircraft has led to renewed demands in from Auckland to London. Air New Zealand crews operate the engineering and cater-from Airways which enables cent. In fares between New Zealand the U.S. This act vice in the same DC 10 aircraft has led to renewed demands in four dearer air fare auckland. Last vice in the same DC 10 aircraft has led to renewed demands in four dearer air fare auckland. Last vice in the same DC 10 aircraft has led to renewed air four d

the profit margin It represents specially from those associated 6.1 cents profit in each foliar of with the internal service, but the labinet decided on the merger with a six of higher farca, it was mainly service.

The merger will help Air New Realand fight increased competition, through the arrival of new training more passengers of heap farcs in the Pacific region.

Air New Zealand bas never guildeney of heap farcs in the Pacific region.

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Air New Zealand bas never guildeney of heap farcs in the pacific region.

Air New Zealand bas never guildeney of heap farch is a recraft. Through out the year, the average daily farch out the year, the average daily farch out the year the average farch out the year th

provided 7 per cent. Last year the company bor-

Air New Zealand has already airlines.

their own country.

Some of the newer airlines such as Air Pacific, owned by the Fiji Government, are also pushing for a bigger share of the traffic in and out of New Zealand. However, Air New Zealand ing 25 per cent, and North America 21 per cent. The Pacific airlines, including Cook Island Islands, Japan and the Orient provided 7 per cent. so passengers wooed to these will not altogether be lost.

Last year the company norrowed \$NZ165m, to meet current
needs, particularly the acquisition of new BC-10 aircraft. The
biggest worry facing Air New
Zealand as it goes into the
Zealand as it goes into the
National Airways

When the small population of
New Zealand, the short hauls
and the isolated communities it
serves, is compared to more
heavily inhabited countries.

NAC's record is a good one. When the small population of It has not gone unnoticed by Australian Aviation commenta-tors that NAC's fare structure is lower over all distances than

that of the major Australian

SECOND ANNUAL REDEMPTION INSTALMENT (Redemption Group No. 3 having fallen due

> 1978 and consequently the note bearing consecutive number 2 and all notes bearing a consecutive number which is 4 or a multiple of 4 higher than 2 are payable on

> > May 1, 1978

in Luxemburg

in Zürich

not an invitation to any person to subscribe for or purchase any securities of Gadek (Malaysia) Berhad.

GADEK (MALAYSIA) BERHAD

obtained during usual business hours on any weekday (Saturdays excepted) up to and including 14th April, 1978,

and at The Stock Exchange.

According to the entry in the egister, Globinvest is "to seek nterest in Luxembourg and origin enterprises."

Globinvest is said here to be interested in acquiring stakes of nore than 25 per cent. in European companies through stock necesses, outright purchases of thoreases, outright purchases of the converse of the purchases of the converse of the

NEW ZEALAND AIRLINES MERGER

existing operators.

merger with National Airways Corporation is the pressure to introduce cut-price fares in the Pacific region from new and

The Property Market

ally unworkable scheme. And its supporters complain that insufficient finance is still prevent-ing the "positive planning" aspects of the legislation from showing through.

Under the community land scheme local authorities are able to buy land and sell or lease it to private developers. But the authorities need Department of the Environment permission to borrow the purchase money for land acquisition. Now, lower interest rates and the up-swing in the demand for development land has enabled the DoE to rescind earlier, restrictive guidance notes to the authorities on the operation of the scheme.

The key changes announced this week counter earlier guidance restricting loan sanctions to land where the acquisition costs could reasonably be expected to be recouped within two or three years. The DoE will now look favourably upon loan applica-tions for land "where the net annual cash flow line shows a positive figure within a reason-able period of time."

In certain cases authorities will be allowed to buy land that shows, "much longer break-even dates, or even continuing losses provided that they can be offset by other more profitable cases." And for the first time authorities



Mr. Hugh Rossl, Conservative Party spokesman on building and land: "The community land scheme has proved to be one of this Government's major embarrassments . . .

solution to the land problem. But

It has fellen flat on its face." able flaws in the scheme.

argues position and nature do not possess the says, "is of obvious importants, the entrepreneurial skills necessary to identify land ripe for development. And he feels that they will in no way meet the cLA, combined with, "penal scheme ... what is needed is a levels of Development Land Tax has discouraged private individuals from bringing forward land for development and has created a severe land famino which the house building organisations view with great concern."

Mr. Rossi's opposition is echoed by the British Property the working party came down in Federation, which has also called for the abolition of the CLA.

The Federation believes that

tor the abolition of the CLA.

The Federation believes that the relaxations may, "give a spur to joint local authority and private developments." But it still "deplores" anything that makes it easier for the local authorities to compulsorily A PRETENTIAL

allocations that were considered land purchase as a, "vindication of the city's professional area when the CLA was first framed. of planners professional con-by Rackhams Stores on Temple. The DoE has not however, cern," and as a marked Row. altered its budget for loan same strengthening of the positive Shipway, Doble and Earle the planner of the positive shipway, Doble and Earle the control of the positive shipway of the positive shipway.

that local DoE guidance.

makes it easier for the local authorities to compulsorily A PRE-LETTING on a new purchase development land." And the French group that, "it is necessary for land to pass through the hands of the copers and Lybrand are authorities in order to be believed to be deep in discussion developmed."

The Royal Town Planning Institute sees the move from short letting on the land to square foot scheme in the heart its first foray into property this sounds familiar.

In units, Sounds f

The Act's many critics in the property sarket see the changes under the Community Land Act.

The Act's many critics in the property sarket see the changes as minor adjustments to a basic ally unworkable scheme. And its supporter company. The Act's many critics in the property sarket see the changes.

The Dock and the property sarket see the changes as minor adjustments to a basic ally unworkable scheme. And its supporter company. The Dock will programmes, and block loan as minor adjustments to a basic ally unworkable scheme. And its supporter company. The Dock will programmes, and block loan as minor adjustments to a basic ally unworkable scheme. And its supporter company. The Dock will programmes, and block loan as minor adjustments to a basic ally unworkable scheme. And its supporter company. The Dock will programmes, and block loan as minor adjustments to a basic ally unworkable scheme. And its supporter company. The Dock will programmes, and block loan as minor adjustments to a basic ally unworkable scheme. And its supporter company. The Dock will programmes, and block loan as minor adjustments to a basic ally unworkable scheme. And its supporter company. The Dock will program as a minor adjustments to a basic ally unworkable scheme. And its supporter company. The Dock will program as a minor adjustments to a basic strongly that the supporter company. The Dock will program as a minor adjustments to a basic ally unworkable scheme. And its supporter company. The Dock will program as a minor adjustments to a basic ally unworkable scheme. And its supporter company. The Dock will program as a minor adjustments to a basic supporter company. The Dock will program as a minor adjustment to a basic supporter company. The Dock will program as a minor adjustment to a basic supporter to minor and the program as a minor adjustment to a basic supporter to minor and the program as a minor adjustment to a basic supporter to minor and the program as a minor adjustment to a basic supporter to minor and the program as a minor

ernment's major embarassments.

It was heralded by Anthony Crossland as the Government's single most socialist measure overall DoE loan allocation is and by John Silkin as a total solution to the land problem Russ. olution to the land problem. But has fellen flat on its face."

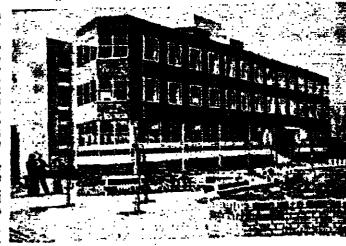
Mr. Rossi sees basic, irresolveble flaws in the scheme.

He argues that local clearly inaucquate.

Clifford Dan chairman of the an overhang that keeps prime rents in the £2.50 to £3 a sq. foot range.

CLA, is unmoved by the new CLA.

"Any removal of constraints," killed the market for secondary position and nature do not possess he says, "is of obvious import-



Priory House, Orplington, is to be the new headquarters building of the combined Harris Carpets/Queensway Discount Warehouses group. Harris, advised by Smith Melunck, has taken a 25-year lease on Pine Buildings' 27,270 sq. ff. block at £5.65 a sq. ft. Hill, Welch and Co. represented Fine. The more releases Queensway's 13,700 sq. ft. offices at Norfolk; Towers, Norwich, which agents are offering at £2 a sq. ft.

week with the E004,000 purchase to the contract for a store on of Macress's (a BP subsidiary) British Bail's 46-acre site by warehouse on the South Brad-Wembley Stadium, will no doubt Birmingham now represents ford Trading Estate. Albany's survive the criticism, he largest remaining area of new Property Bond Fund. Tescu, advised by James Lewis rold space in MEPC's portfolio advised by Knight Frank, and and Co, heat Asia by a shert—with 26,400 sq. feet at Ruley and Warburg Investment head in the tender race. And attwood House in New Street, Management, got an 11.5 per English Property Corporation, 13,000 sq. feet left in its Broad-

Attwood House in New Street, Management, got an 11.5 per English Property Corporation, 12,000 sq. feet left in its Broadway scheme and 54,000 sq. feet left in Metropolitan House. In discount price reflecting low and General Assurance, emerged left in Metropolitan House. In reversionary prospects on high as the successful development with a bias towards film, and local commercial with a bias towards film, and local commercials, running for five weeks from early April, are aimed at the real

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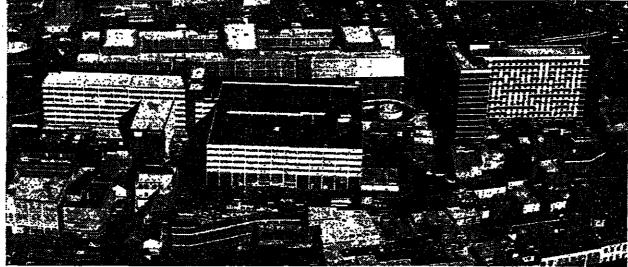
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For further information write or phone L Austin-Crowe BSc FRICS, Chief Estate Surveyor, Northampton Development Corporation, 2-3 Market Square, Northampton NN1 2EN. 0604 34734

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(Croydon Auction Rooms)

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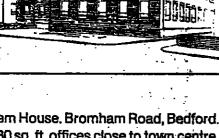
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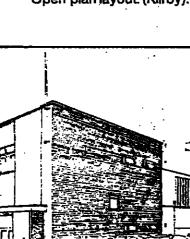


OPERI

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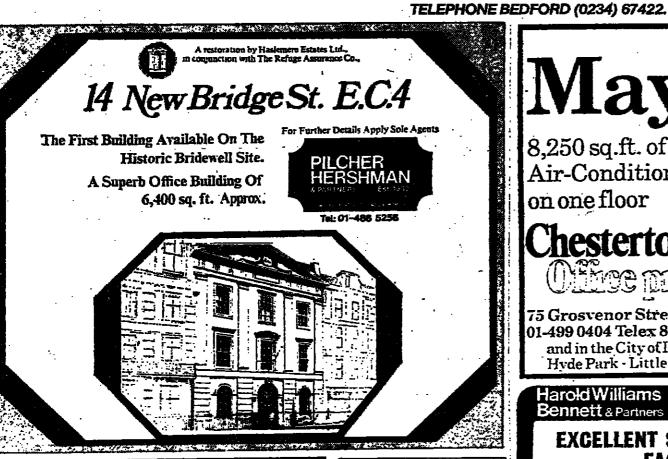
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PROPERTY DEALS

A 'safety net' for Fleming

JOHN Newman of The Fleming Propert Unit Trust has rigged up an interesting safety net for the Trust's El5m. speculative warehouse development in Croydon.

Fleming has become funding ments, lease restructuring, partner to Godfrey Bradman's marriage value of combining London Mercantile Holdings on Mercantile's 6.7 acre, former ICL added profit potential. site at Thornton Road. Croydon. Mercantile paid £1.25m, for the freehold site last autumn, and the developer, advised oy Lambert Smith and Partners, plan to build 161,400 square feet of industrial and warehouse space over the next 18 months.

Fleming's financing deal in-cludes a guarantee from the developer to pay the Trust 9 per cent interest on development finance relating to any building standing empty a year after com-pletion. In this way the Trust cent. net return on the warehous-ing, or 9 per cent, from Mercan-tile on finance provided for

This variation of a temporary lease-back to the developer provides additional security for the financing institution. But in this case, with a shortage of well located modern industrial space in Croydon, Fleming is unlikely

Around a third of the Croydon space has already been provision-ally pre-let at more than the initial asking rent of £2.15 a square foot. Fleming and Mercantile share equally any benefit from lettings made at more than this base rent.
The Croydon scheme is Flem-

ing's largest single investment in the first quarter of 1978, and brings the total value of the Trust to £89m. Mr. Newman feels that the current portfolio spread of just under 40 per cent. in offices, 17.4 per cent. in shops, 38.7 per cent. industrial and 4 per cent. agricultural land is a satisfactory balance for the time being, although he expects probems in maintaining the proportion of shop properties next year.

Mr. Newman echoes the recent
comments of Cecil Baker, chair-

man of the £200m. Property Unit Trusts Group, who feels that property yields are now his-torically low." But The Fleming director is less concerned than Mr. Baker about "overheating

are chasing after the strictly limited supply of new prime in-

their arithmetic and invest at yields which can only be justified by rental growth of an optimis-tically high order." But the fund sees "no shortage of opporsees "no shortage of oppor-tunities for attractive property investments." It buys "prime" in terms of location, but buys well above published 'low' yields by taking on space where refurbish-



Computer group Honeywell I.S. has taken the remaining 19,418 sq. ft. of Land Securities' 30,000 sq. ft. redevelop-ment at 74-78, Finsbury Pavement, E.C.2. Land Securities' subsidiary, City of London Real Property, had been asking just over £11 a sq. ft. for the air-conditioned Knight, Frank and Rutley advised the developer, and Teny Charnock acted for Honeywell, which will move into the lower four floors below the other recently signed tenants, accountants Thompson McLintock.

in the property market."

"We still have piles of proprivate investment trust, has sold
positions coming across my desk, its 2,000 year head leasehold ays Mr. Newman, although, (from the City Corporation) on much of it is rubbish." He feels Matheson House, EC3, to National that even in this seiler's mar Employers Life Assurance for ket there is still scope to invest £2.1m. The Life Office gets an the £25m. or so that flows into initial yield of just 4.2 per cent. Fleming's Trust each year. "yield on the 17,000 square foot are very low, and property is his Minories block. But a 35 year

torically expensive. But the underlease to a Jardine Matheson potential for growth, even at subsidiary. Matheson and Co., these levels is still good." the f21m. Merchant Investors yearly rent review next year, and Property Fund takes the same current rents of £5.16 a square line. In the March edition of its foot show their December 1972 Investors' Builetin MI comments vintage. Hume was advised by that "We would agree there is Richard Ellis, Hamptons acted a danger that some buyers who for National Mutual.

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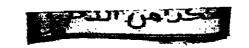
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Den norske Creditbank

Paine, Webber, Jackson & Curtis Securities Limited

Schröder, Münchmeyer, Hengst & Co.

Rothschild Bank AG

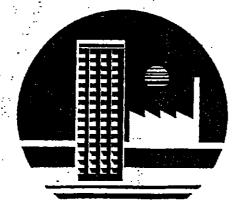
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Société Générale de Banque S.A. Svenska Handelsbanker

Verband Schweizerischer Kantonelbanken M. M. Warburg-Brinckmann, Wirtz & Co. Westdeutsche Landesbank

Yamaichi International (Europe)

A FINANCIAL TIMES SURVEY



INTERNATIONAL PROPERTY

MONDAY JUNE 5 1978

The Financial Times proposes to publish a survey on International Property on Monday June 5 1978. The main headings of the provisional editorial synopsis are set

INTRODUCTION Property dealers around the world have been polishing up real estate's recently tarnished image as the most secure of long-term investments. The dealers have been forced to redouble their normal propaganda efforts because of the evident gap between promise and performance in world property investment markets

THE MARKETS: EUROPE: FRANCE | WEST GERMANY | THE NETHERLANDS | BELGIUM | ITALY

IRELAND □ SCANDINAVIA □ EASTERN EUROPE □ SPAIN NORTH AMERICA: THE UNITED STATES | CANADA | SOUTH AMERICA: BRAZIL AFRICA: REPUBLIC OF SOUTH AFRICA

NIGERIA

> AUSTRALIA FAR EAST: HONG KONG 🗆 SINGAPORE 🗆 JAPAN MUDDLE EAST: EGYPT 🗆 IRAN 🗀 UNITED ARAB EMIRATES

Terry Druce Financial Times, Bracken House, 10 Cannon Street, London EC4P 4BY Tel: 01-248 8000 Ext. 7196

For further details on the editorial content and advertising rates please contact

FINANCIAL TIMES EUROPE'S BUSINESS NEWSPAPER

The content and publication dates of Surveys in the Financial Times are subject to change at the discretion

GOLD MARKET

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Market Kates

Rares Day's

FOREIGN EXCHANGES

WALL STREET + OVERSEAS MARKETS

+ FOREIGN EXCHANGES

Profit-taking pushes index down 2

BY OUR WALL STREET CORRESPONDENT

money supply. while volume an Airco was among the leading shares (3.70m.). actives, falling \$3% to \$40%. BOC International, which yesterday said it was set to increase its interest in Airco to \$5 per cent.. announced to-day that it may

NEW YORK -DOW JONES

! 1976 Since compilat's

Indices

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STANDARD AND POORS

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Mar. 24 | Mar. 17 | Mar. 10 | Year ago (approx.)

Mar. 29 Mar. 22 March 15 Year ago (approx.)

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AMSTERDAM—Firmer follow- spite of news of a heavy deficit Wheelock 5 to SHK1350.

Christian Democrat gains in 1977) on a reduction in recent Light 30 to SHK21.50.

Suite Passing processing the Dutch provincial elections, a selling pressure,

PRICES DRIFTED lower in defended its \$10.50 a ton price moderate trading on Wall Street increase which drew Government to-day, erasing some of the gains criticism when announced yeater day.

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U.S. Steel, place active, was steady at \$257—the company THURSDAYS ACTIVE STOCKS

THURSDAYS ACTIVE STOCKS

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Mar. 30: Mar. 29 Mar. 22 | Mar. | Mar. | Mar. | 1978 | Low | Low | Husts | 1,848 | 1,866 | 1,862 | 28 | 27 | High | Low | Rises | 593 | 361 | 908 | 50.87 | 48.86 | 48.65 | 51.82 | 48.87 | 185/th | (6,3) | New Highs | New Lows | 1,864 | 455 | 185/th | (6,3) | New Lows | 1,864 | 1,866 | 1,862 | 1,864 | 1,866 | 1,862 | 1,864 | 1,866 | 1,862 | 1,864 | 1,866 | 1,862 | 1,864 | 1,866 | 1,862 | 1,864 | 1,866 | 1,862 | 1,864 | 1,866 | 1,862 | 1,864 | 1,866 | 1,862 | 1,864 | 1,864 | 1,866 | 1,862 | 1,864 | 1,864 | 1,864 | 1,864 | 1,864 | 1,864 | 1,864 | 1,864 | 1,864 | 1,864 | 1,864 | 1,864 | 1,864 | 1,864 | 1,864 | 1,864 | 1,864 | 1,864 | 1,864 | 1,864 | 1,864 | 1,864 | 1,864 | 1,864 | 1,864 | 1,864 | 1,864 | 1,864 | 1,864 | 1,864 | 1,864 | 1,864 | 1,864 | 1,864 | 1,864 | 1,864 | 1,864 | 1,864 | 1,864 | 1,864 | 1,864 | 1,864 | 1,864 | 1,864 | 1,864 | 1,864 | 1,864 | 1,864 | 1,864 | 1,864 | 1,864 | 1,864 | 1,864 | 1,864 | 1,864 | 1,864 | 1,864 | 1,864 | 1,864 | 1,864 | 1,864 | 1,864 | 1,864 | 1,864 | 1,864 | 1,864 | 1,864 | 1,864 | 1,864 | 1,864 | 1,864 | 1,864 | 1,864 | 1,864 | 1,864 | 1,864 | 1,864 | 1,864 | 1,864 | 1,864 | 1,864 | 1,864 | 1,864 | 1,864 | 1,864 | 1,864 | 1,864 | 1,864 | 1,864 | 1,864 | 1,864 | 1,864 | 1,864 | 1,864 | 1,864 | 1,864 | 1,864 | 1,864 | 1,864 | 1,864 | 1,864 | 1,864 | 1,864 | 1,864 | 1,864 | 1,864 | 1,864 | 1,864 | 1,864 | 1,864 | 1,864 | 1,864 | 1,864 | 1,864 | 1,864 | 1,864 | 1,864 | 1,864 | 1,864 | 1,864 | 1,864 | 1,864 | 1,864 | 1,864 | 1,864 | 1,864 | 1,864 | 1,864 | 1,864 | 1,864 | 1,864 | 1,864 | 1,864 | 1,864 | 1,864 | 1,864 | 1,864 | 1,864 | 1,864 | 1,864 | 1,864 | 1,864 | 1,864 | 1,864 | 1,864 | 1,864 | 1,864 | 1,864 | 1,864 | 1,864 | 1,864 | 1,864 | 1,864 | 1,864 | 1,864 | 1,864 | 1,864 | 1,864 | 1,864 | 1,864 | 1,864 | 1,864 | 1,864 | 1,864 | 1,864 | 1,864 | 1,864 | 1,864 | 1,864 | 1,864 | 1,864 | 1,864 | 1,864 | 1,864 | 1,864 | 1,864 | 1,864 | 1,864 | 1,864 | 1,864 | 1,864 | 1,864 | 1,864 | 1,864 | 1,864 | 1,864 | 1,864 | 1,864 | 1,864 | 1,864 | 1,864 | 1,864 | 1,864 | 1,864 | 1,864 | 1,864 | 1,864 | 1 48.95 50.07 48.86 49.65 57.82 48.57 MONTREAL.

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Sterling falls

STERLING LOST ground in the nervous trading, with lurnover a necounter of the continuing described as moderately active. The krugerrand's premium over the gold content was 3.13 per cent described annual following the pessimistic annual review of the Cambridge Economic delivery, compared with 3.65 per cent, and 3.10 per cent, respectively on Wednesday.

The krugerrand's premium over those contents of the krugerrand's premium over the krugerrand's premium over the krugerrand's premium over the contents of the krugerrand's premium over the kru in the future and that the trade performance of Britain will be very poor, led to selling pressure

on the pound, but this was prob-ably not met by any intervendion by the Bank of England. Sterling opened at \$1.8780-1.8790, and touched \$1.8800, the highest level of the day, before falling to \$1,x750 at lunch. Following the \$1.8750 at linch. Following the opening of the New York market the pound fell to a low point of \$1.8380-1.8395. but improved slightly on late natural demand to close at \$1.8610-1.8620, a fall of 2.05 cents on the day, and the

lowest closing level since mid-Swire Pacific moved 5 ahead to

weaker.

The U.S. dollar showed mixed U.S. dollar 1.23513 1.39980 changes against major currencies, Canadian 1.23513 1.39980 changes against major currencies, Canadian 1.23513 1.39980 in terms of the Swiss franc, from language transport of the Swiss franc, from Data 1.20257; but easing to DM parkethem the 2.20257; against the D-mark, from DM2.0275. The Japanese yen was steady at around Y222.50 for most of the day. The dollar's house franchistic for the day. The dollar's house franchistic for the day of the dollar's house franchistic for the day. The dollar's house franchistic for the dollar's house franc an upsurge in overseas sales. BHP rose 4 cents to \$.43.76. Bank of NSW 2 to \$.43.10 and ANZ Bank 3 to 3.42.65.

Bank 3 to \$A2.65.

Sugar stocks improved on the overnight London sugar price rise. Bundaberg gained 5 cents to \$A3.05. Ploneer 4 to \$A1.05 and CSR 7 to \$A2.56.

Retailers were slightly easier while elsewhere. EZ Industries gained 9 cents to \$A1.52.

Among Minings. Thiess put on 5 cents to \$A1.90, but Pancontinental eased 16 to \$A9.80. Consolidated Gold Fields advanced 18 cents to \$A2.50.

NEW YORK, March 30.

NOTES: Overseas prices shown below.

exclude \$ premain. Belgian dividends for after withholding tax.

• DANSO denom unless otherwise stated.

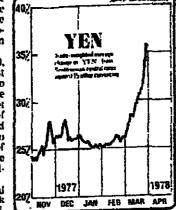
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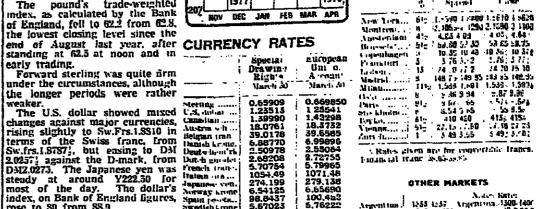
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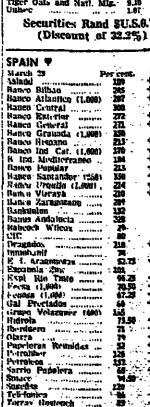
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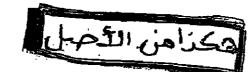
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FARMING AND RAW MATERI

Stocks may halt nickel recovery

JRPI:US STOCKS, and new oduction capacity this year, ill keep aickel prices from covering until 1980, according

icers decided to continue pro-leing at the current high corporation, Memaco, said the

so forecast. The report comalaysian tin is past and alaysia will be lucky simply to intain current output into the d-1980s with the industry duced to working lower-grade enneits.

The U.S. General Services to he averted in the short-un, the report claims.

Indian tea exports reduced

NEW DELHI, March 30. VDIAS TEA exports in the ear to March, 1978, have been opt to the expected 225m kilos vel to ensure availability for omestic markets, the official

Zambia to cut copper sales by 15%

BY JOHN EDWARDS, COMMODITIES EDITOR

COPPER PRICES jumped on the London Metal Exchange yestera long-term forecast prepared Condon Metal Exchange yester-day following an announcement ates, a subsidiary of the Chase anhattan Bank.

London Metal Exchange yester-day following an announcement by Zambia that it proposed to cut back supplies deliverable anhattan Bank.

It predicts that there will be the prices this year to no gher than \$2.30 a pound.

The report claims that the case of the process the process of the proce r than \$2.30 a pound.
report claims that new eased when the cutback was put at 15 per cent, starting with

oduction capacity coming on ream will continue to keep orks bigh and prices low. sisting cutbacks by Canadian id New Caledonian producers e simply too small.

The outlant continue to keep out of between 20 to 25 per cent., including April deliveries, had been generally anticipated. Cash wirebars eventually closed fi25 up on the day at £704 a tonne after having traded come. tonne, after having traded some tonne, after having traded some astically if the dominant pro-The

account the 15 per cent, produc- monthly.

Zaire, which is suffering some-what similar problems to Zambia. has chosen not to declare force majeure preferring to meet its commitments by fitting the short-fall with purchases from the world market. However it is likely to face further difficulties if the "wildcat" strike at Hoboken's Olen refinery in Belgium becomes official on Monday and leads to an extended Monday and leads to an extended stoppage. A large proportion of Zaire copper is handled by Hoboken.

So far Hoboken, and Sozacom
the Zaire copper marketing
company—have said they will
not declare force majeure for the Icing at the current high propertion, Memaco, said the corporation, Memaco, said the swentrants into the nickel instry, the report warns.

Under those conditions surplus ocks would not fall until the id-18% and prices might even il. New and marginal nickel-oducing projects would dry up nickly, restricting supply to 50,000 tonnes a year by the mid-180, a shortfall of 100,000 tonnes under demand. This ould bring another round of ortages and materials substitutions, the report added.

A shortage of tin supplies is so forecast. The report comtime being. But this obviously

U.S. farm plans 'not enough'

U.S. FARMERS have greeted the growers could "live with" the Brokers and market experts dministration, with its 204,000- Carter Administration's agricul- \$4,50-a-bushel soyabean loan rate attempting to assess the impact onne tin stockoile. Will have to ture policy changes as a step in in view of recent price increases of the changes came up with second a major sumply source of the right direction but they say in the market. the right direction but they say in the market.

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Intian teams with the plan to pay farmers to to pursue a \$4 a bushel target tional feedgrain acreage.

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production might lead to an 8m. Ing land from wheat production not a major market factor at season which started in October.

Mr. Bob Bergland, U.S. Agripresent but it could become includings, but the least productive culture Secretary, said a \$3.40 creasingingly important.

Theoretically, eight to 10m. acres out of production could reduce the crop by 500m. bushels to an estimated 5.7bn. or 6bn bushels, he calculated.

"Without this programme the crop of the said an added proposal to the serious producers of the said an added proposal to a said an added proposal to the serious producers for larger plan which and the control of the said an added proposal to a said an added proposal to the serious producers for larger plan which the organities.

Wr. Bob Bergland, U.S. Agripresent but it could become increase of 37 per cent. on the 1976-77 agricultural year, according to Mr. Moshe Shavit, director of Agreeco."

Also, farmers who elected to response to the serious problems that beset American agricultural produce other than citrus, has will receive a payment of 50. He said an added proposal to a single or the target price pay feed grain producers for large in October.

This would represent an increase of 37 per cent. on the 1976-77 agricultural year, according to Mr. Moshe Shavit, director of Agreeco."

Also, farmers who elected to response to the serious problems that beset American agricultural produce other than citrus, has director of the said an added proposal to a supplied the policy of the period of the policy of the said an added proposal to a supplied the policy of the said an added proposal to a supplied the policy of the producers.

Will receive a payment of 50. He said an added proposal to a supplied the policy of the policy of

Reuter

Upturn in cocoa market

By Richard Mooney
A LATE buying flurry boosted prices sharply on the London cocoa futures market yesterday, wiping out an early fall. The shake-out which wiped nearly £50 off the May position on Wednesday continued in the morning when May cocoa registered another £40 permissible limit fall. sible limit fall.

The price slipped to £1,995 at one time but its failure to pass through a major "chart support point" at £1,990 triggered a dramatic turnround in market tone and by the close May cocoa was quoted at £2,063.5 a tonne, up £18.5 on balance.

Dealers said the market's

late strength reflected a con-tinued lack of producer selling and a decision by Russia to "fix." prices on a significant "fix" prices on a significant number of import contracts at present levels.

This allowed the exporting merchants to buy on the futures market against earlier "hedging" sales. The upward move was also encouraged by scattered U.K. manufacturer buying and the weakness sterling.

A further marginal "bullish" influence was a Department of Trade announcement that U.K. cocoa bean imports rose steeply in February. The month's total was 11,326 tonnes compared with 6,127 in Janu-ary and 6,061 in February 1977. February imports included February imports included 5,263 tonnes from Ghana and 4,250 from Nigeria.

Israeli fruit export earnings

U.K. AGRICULTURE

Slowing the drift from the land

BY JOHN CHERRINGTON, AGRICULTURE CORRESPONDENT

LORD KALDOR and John drift from the land with policies made more profits.

Pardoe, Liberal MP for North designed to restrict the enlarge— In my own small way I have Cornwall, among others, have ment of farms beyond the family come to the same conclusion. I been floating the idea that one solution to persistent urban unemployment would be to induce a much smaller acreage than in men. The buildings are obsolete the return of a million or so Britain.

Workers to the land,

There seems to be little prosemploying the second man, that

work—the average in the EEC—instead of less than 3 per cent, unemployment would be bound

Unfortunately, this solution has little supporting evidence 23 per cent, urban unemploy-ment is not far from the British

labour force has been spectacu-lar. Since 1946 numbers employed both full-time and parttime have fallen from just less progress, than 1m. to 375,000. In addition, That be a much smaller proportion of farmers has also packed up. efficient in the Community in well be checked. Even that those to ponder. For a number of terms of output per unit of "occupied" in farming, a subtle reasons, political and social, labour. In terms of productivity distinction, could well be on the per acre and unit of livestock increase.

Some practical farmers are governments do not see any virtual and climatic for the per acre and could be contained by land and climatic for the practical farmers are governments do not see any virtual could be contained by land and climatic for the production of the production of

workers to the land.

There seems to be little prose employing the second man, that pect of increasing paid employed is a labour cost of about \$2,000 ment in British farming. The a year, I could put in a modern cent of the population in rural main productive section of the unit which would cost, accordingly work—the average in the EEC—industry—the larger farm—is ing to the experts, anything geared to increasing mechanisa- between £50,000 to £100,000. But tion and stock handling systems this, at the cheapest level, designed to maximise output per would cost an annual £10,000 in man and basically reduce overall interest and depreciation. So

Unfortunately, this solution has little supporting evidence On the Continent, despite rural populations of between 8 and 23 per cent. urban unemployment is not far from the British fevel.

The fall in the British farm labour force has been spectacular. Since 1946 numbers embed and specially reduce overall interest and depreciation. So saving the employment of a man would cost me £7,000 a year farming stems from the British form the British size. In Europe, policies the size in Europe, policies farm size. In Europe, policies the maintenance of a large rural way. Particularly now that the population. So any attempt to inflationary profits which arable reverse the British system would cost me £7,000 a year farming stems from the £7,000 a year f be flouting not only conventional enjoyed since 1971, have been economics, but two centuries of matched by the inflationary

That being said, and in contra- in catching up. diction to those who have been. There is another point which lambasting Lord Kaldor and his those who are in favour of in-

that caused by land and climatic finding that the costs of mechanic tue in wiping out small conditions.

In the Community the numbers of those occupied in farming cheaper to keep going with old another even more cogent factured by the cost of the community the numbers of those occupied in farming cheaper to keep going with old another even more cogent factured by the cost instead.

In the Community the numbers of those occupied in farming cheaper to keep going with old another even more cogent factured by the cost instead.

Same period. But this figure instead.

TEL AVIV. March 30. ISRAEL'S EXPORTS of fresh agricultural produce, other than cirrus, are expected to bring in \$140m. during the current export season which started in October. This would represent an increase of 37 per cent. on the 1976-77 agricultural year, according to Mr. Moshe Shavit, director

costs that have not been slow

This has resulted in British supporters, there are signs that vesting in very large-scale pig farming becoming the most the decline in employment could and poultry units would do well efficient in the Community in well be checked. Even that those to ponder. For a number of

Danish threat to Blue Whiting

its large fish-based meal, oil and viable economic operation.

PRICE CHANGES

wel to ensure availability for omestic markets, the official amachar news agency reported cre.

This quantity, valued at Rs.55n
This report notes' that inter-alignal prices for tea increased narply during 1977 because of apply during 1977 because of apply during 1977 because of the polarited narply during 1977 because of the polarited proposal to will receive a payment of 50 will an added proposal to dams at doubling the quantities shipsed to 36,000 tonnes a year plan which aims at doubling the quantities shipsed to 36,000 tonnes a year plan which aims at doubling the quantities shipsed to 36,000 tonnes a year plan which aims at doubling the quantities shipsed to 36,000 tonnes a year plan which aims at doubling the quantities shipsed to 36,000 tonnes as payment of 50 making idle more than the trust will a first a dams at doubling the quantities shipsed to 36,000 tonnes a year plan which aims at doubling the quantities shipsed to 36,000 tonnes a year plan which aims at doubling the quantities shipsed to 36,000 tonnes a year plan which aims at doubling the quantities shipsed to 36,000 tonnes a year plan which aims at doubling the quantities shipsed to 36,000 tonnes a year plan which aims at doubling the quantities shipsed to 36,000 tonnes a year plan which aims at doubling the quantities shipsed to 36,000 tonnes a year plan which aims at doubling the quantities shipsed to 36,000 tonn

major European fis hstocks.

COMMODITY MARKET REPORTS AND PRICES

Soyabean Association said farmer."

LEGAL NOTICES

Any of the said Petitions may appear at the time of hearing in person or by his companies. The high Court of Justices for the said companies court, in the Mairers of Suraj of Kergsbury of any of the said companies. The Companies of Suraj of Kergsbury of any of the said companies (MARK LIMITED, DAVID) WOLMARK LIMITED and in the Maiter of the Companies of the Mainter of the Mainter of the Companies of the Mainter of Mainter of Mainter, Strand, London, Ecsar 718.

Royal Courts of Justice, Strand, London, with the Mainter of Mainter of Mainter of Mainter of the Mainter of Mainte

INVEST IN 50,000 BETTER TOMORROWS! 50,000 people in the United Kingdom suffer from progressively paralysing MULTIPLE SCLEROSIS—the cause and cure of which are still unknown—HELP US BRING THEM RELIEF

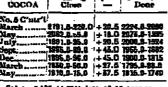
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Please help-Send a donation today to: Room F.I.
The Multiple Scierosis Society of G.B. and N.L. 4 Tachbrook Street, ...

The weakness of sterling gave an underlying strength to prices through the day in the face of continued long liquids-lian. Gill and Duffus reports.

RUBBER
UNCHANGED one physical market. S



Silver was fixed 2.75p an nunce lower for spot defirerty in the London buillion matchet reserving at 128.25p. U.S. conditions matchet reserving at 128.25p. U.S. conditions of the fixing levels water spot 539.2c, down 8.1c; three-month 538.2c, down 8.4c, str-month 548.5c, down 8.3c; and 18.4c, str-month 548.5c, down 8.3c; and 18.4c, str-month 548.5c, down 8.3c; and 18.4c, str-month 548.5c, down 8.4c. The metal: opened at 284.3285.3p (285.4385); seed 18.4c, str-month 548.5c, down 8.4c. The metal: opened at 284.3285.3p (285.4385); seed 18.4c, str-month 548.6c, down 8.4c, str-month 548.6c, down 8.4c. The metal: opened at 284.3285.3p (285.4385); seed 18.4c, str-month 548.6c, down 8.4c. The metal: opened at 285.1-286.p (285.1-286.p) seed 18.4c, str-month 548.6c, down 8.4c. The metal: opened at 285.1-286.p (285.1-286.p) seed 18.4c, str-month 548.6c, down 8.4c. The metal: opened at 285.1-286.p (285.1-286.p) seed 18.4c, str-month 548.6c, down 8.4c. The per cent. April 381.75, May 189.2b, June 381.2b, June 381.2b,

UNCHANGED opening on the London physical market. Steady throughout the day, closing on a firm note. Lewis and Peat report that the Malaysia godown price was 284 (same) cents a kilo (buyer, Aporth.

VEGETABLE OILS LONDON PALM OIL—Closing: 178,96-330.00, May 300.08-330.00, 386,90-330.00, July 338,96-338.00, 386,90-338.00, Sept. 250.06-330.00, 298,80-338.80, Nov. 250.06-315.00, 280.06-318.00, Sales: Nil.

MEAT/VEGETABLES

DAMMODITY MARKET REPORTS AND PRICES

BASE METALS

The is to the region of the control of the con

Colombian sugar export plans

COLOMBIA PLANS to sell a minimum of one cargo (10-12,000 tonnes) of raw sugar per month until its export quota of about 60,000 tonnes under the International Sugar Agreement is April exhausted, world sugar market June sources said here. Industry sources in Rogota confirmed this morning that Colombia has resumed export sales following its withdrawal from

NEW YORK, March 30.

the market a year ago because of

REUTER'S Mar. 30 Mar. 29 Month ago Year ago 1435.2 1428.7 1388.5 1731.2 DOW JONES Dow Mer. Mar. Month Year Jones 30 .29 ago ago Spot 563.42355.53555.94426.45 Futures 352.87.355.10,533.35412.70 (Average 1924-2538=190) MOODY'S Moody's 30 29 ago ago Spie Commun 905.8 904.7 896.0 845.8 (December 31, 1931=190)

FINANCIAL TIMES Mar. 30 | Mar. 29 | Mouth ago; Year ago

238.28 | 287.52 | 227.88 | 276.45

(Base: July 1, 1952=100)

U.S. Markets Limit-up

cocoa; ease by coffee NEW YORK, March 30. NEW YORK, March 30, COPPER finished on an easy tone on mixed profit-taking. Gold closed steady on Commission House buying. Silver eased slightly on Commission House selling following soyabeans. Cocoa closed limit-up bid; trade arbitrage buying attracted speculative short-covering Coffee eased on a lack of rousetr interest Sagar was lower on mixed selling and tired long liquidation, Bache reports.

Cocoa—May 167.25 (166.69), July 160.7:

| St. 84.82 | St. Catton—No. 2: May 56.95-57.15 (57.53 July 58.76-58.75 (58.73), Oct. 60,00-60.1 Dec. 80.75-60.85, March 83.10, May 83.6 62.69 bd., July 63.46-63.75 bid. Sale:

433.509 bales.

"Gold—April 180.70 (179.30), May 181 (189.50), June 182.90, Aug. 185.40, Oc 189.00, Dec. 190.70, Feb. 183.40, April 196.30, June 199.30, Aug. 282.20, Oc 265.20, Dec. 288.20, Feb. 211.20, Sale 10.509 lots. **TLard—Chicago loose 25.75 (25.5)
New York prime steam 27.25 trad (27.6)

**DMaine—May 2514-251 (2514), July 25: 2521 (2521), Sept. 253, Dec. 2544-2;
March 252, May 263.

March 3C., May 263.

5Platinum—April 218.26-219.78 (212.8

July 221.08-223.80 (223.50), Oct. 226.

Jan. 230.70-230.90 asked. April 234.70-234

asked. July 238.70-235.90 asked. Sab.

1,823 lots.

55liver—April 531.60 (532.40), May 534

(535.90), June 538.10, July 562.90, Sc.

250.10. Dec. 562.30, Jan. 562.80, Jan.

574.50, May 532.20, July 591.70, Sc.

680.39, Dec. 612.90, Jan. 617.20, Sal.

10,000 lots. Handy and Harman 532.70 (532.50).

Sayabara—May 671-675 (701), July 1 10.00 103. Handy and Harman 5 532.70 (532.59).

Sayaheans—May 671-678 (701), July 1 679 asked (709), Au. 670-671, Sept. 1 Nov. 684-506, Jan. 611, March 619, 5 524.

Soyahean Meal — May 171.00-17 (178.20), July 173.00-174.50 (131.30), A 175.30-175.80, Sept. 169.00-1700 hd. (168.00, Dec. 169.00-165.30, Jan. 15t 166.50 hd. March 170.00.

Soyahean Oll—May 25.95 asked (28.54), Aus. 2 24.55, Sept. 23.80, Oct. 22.35, Dec. 2 Jan. 21.60, March 21.55-21.60 hd. f 21.45, Sept. 23.80, Oct. 22.35, Dec. 2 Jan. 21.60, March 21.55-21.60 hd. f 21.45, Sept. 24.80, Oct. 82.35, May 9.35-34.82-49, Sept. 848, Oct. 802, Jan. 8.15 asked, March 9.37-838, May 9.35-34.82-49, Sept. 848, Oct. 82.35, July 9.75-89 bid. Sales: 4.515 lots. Tin—5.00-5.08 asked 75.04-5.16 asked Tin—5.00-5.08 asked 75.04-5.16 asked

July 9.78-9.89 bid. Sales; 4.518 lots.
Tin-5.06-5.08 asked 15.04-5.10 asked
"Whoat-May 303-384 (222), July
305 (2351). Sept. 310. Dec. 3189, M
223-323). May 225.
WINNIPEG. March 30. †Ree—
111.30 bid (111.50 asked). July 1
(109.80 bid, Oct. 107.90 bid, Nov. 1
bid. Dec. 167.68 bid.
-1†Dats-May 78.80 bid (79.30), July
bid 177.80 asked). Oct. 75.78 bid,
74.40 asked.
118arier-May 50.90 bid (89.40),

1:Barley May 80.90 bid (88.40), 80.76 (80.10), Oct. 79.50 bid. Dec. Specimiss, 1880, 1

FINANCIAL TIMES STOCK INDICES

STOCK EXCHANGE REPORT

Markets subdued by talk of a rise in interest rates Share index 0.4 off at 467.7—Gilt-edged give ground

a marked reluctance and prices level of 276p.
drifted lower in the absence of Jobbers were seemingly unim-Hire Purchase issues took a better trade, with selected distinct turn for the worse, senti-secondary issues recording fair ment being unsettled by fears of gains. Housebuilders Gough

nent being insertled by lears of gains. Housebuilders Gough

after-hours' dealings saw losses back to 112p pending further extending to 1 being registered. Earlier, the market had tenta-ceramic bid situation. Loudon tively settled after the easinest of recent days and although stock came on offer it was absorbed by a small demand which posted gains of 1 among several high-couron longs. Sterling's afternoon performance, however, aroused new worries of a possible hike in Minimum Lending Pare and dea'ers began defensively lowering dea'ers began defensively lowering after tool and the leaders of the market had tenta-ceramic bid situation. Loudon Saturday.

Activity in Engineerings was obshed to close on Saturday.

Activity in Engineerings was obshed to the leaders of the latter will be quoted ex the latter will be quoted ex

mans attracted buyers ahead of respectively, but other leading continued light trading. Currency tinto rose a similar amount to single-string effect on underlying sentiment. British Funds were naturally affected and recorded losses extending to \}. The Government Securities index gave ground for the fourth consecutive trading of the fourth consecutive trading day, closing with a fall of 0.39 at 74.05.

Leading Equities ran out of steam after Wednesday's useful improvement, which was based mainly on a revival of Budget

Mans attracted buyers ahead of respectively, but other leading monds respectively, but other leading respectively, but other leading content interest and credit and rose 4 to issues closed with little alteration. Monday's results and rose 4 to issues closed with little alteration. Monday's results and rose 4 to issues closed with little alteration. Solution to the fourth close was 4 better at 769, hopes, Western Mining put on 3 to 129, in Shoes, Ward White touched 769 in response of the fourth consecutive trading day, closing with a fall of 0.39 at 740.5.

Leading Equities ran out of steam after Wednesday's useful improvement, which was based mainly on a revival of Budget improvements after a thin modest improvements after a thin trade. Lloyds and NatWest both mainly on a revival of Budget trade. Lloyds and NatWest both optimism. Potential buyers showed improved a penny to the common

fresh support. The extent of the pressed with Prodential's annual day's fall was only modest as figures and the shares were reflected in the FT 30-share index, marked down to 158p before This measure touched its lowest of closing 2 easier on balance at the day at noon with a loss 1.5 160n. London and Manchester, at 466.6 and closed only 0.4 off on however, on further consideration at 484.5 and closed only 0.4 off on however, on further consideration balance at 467.7. Against the of the results and proposed £2m. trend. Lives stood out with a rise rights issue, hardened a penny of 7 to 275p in response to the more to 137p, while Pearl rose 4 satisfactory interim statement. satisfactory interim statement.

Overall, the trend was to bigher year's performance. Among Compare's with secondary Issues heing posites. Sun Alliance edged helord by occasional new-time forward 2 to 544p; the preliminary demand for the Account starting figures are due next Wednesday. nort Mondov. Among the sectors. Building issues encountered a

stand a 200 following the lower of the shares of the shares of the shares of a re-clion in the bullion apiece to 221p and 188p res except and every were fairly reflected and every were fairly reflected and every were fairly results, as all business. Higgs and full steer at 61p. Small business. Higgs and full steer at 61p. Small business. Higgs and full steer at 61p. Small business. Higgs and full steer after-hours' dealiness saw losses extending to 2 being resistered dearer at 61p. Small business. Higgs and full steer after-hours' dealiness saw losses of the shares of the shares of the shares of the shares of the same amount to the shares of the shares of the same around in the day's results, but the shares of the same turners, on investing that the turn harder at 151p to the better-than-expected pre-liminary results, but the shares of the narent Furness Withy shed 4 to 242p. Other dull spots included prices index to 132.9. A modest U.S. demand in the after-hours rade cnabled prices index to 152.9. A modest U.S. demand in the day's results, but the shares of the narent Furness Withy shed 4 to 242p. Other dull spots included prices index to 152.9. A modest U.S. demand in the day's results, but the shares of the narent Furness Withy shed 4 to 242p. Other dull spots included prices index to 152.9. A modest U.S. demand in the after-hours rade cnabled prices index to 152.9. A modest U.S. demand in the day's results, but the shares of the narent Furness Withy shed 4 to 24p. Other dull spots included of 10 to 99 pon the period of 12 spots for the period of 12 spots fo FT-Actuaries index for the section and rose 4 to 86p, while a vague foll 3,5 ner cent, to 1510 compared tip for Marchwiel lifted the shares

Consolidated Plantations Limited

The Board of Consolidated Plantations Limited announces that, following receipt of approval from the Malaysian Capital Issues Committee, the Kuala Lumpur Stock Exchange has granted admission for listing and quotation on the Exchange of the company's 9.638,654 warrants with effect from 10.00 a.m., Friday, 31st March, 1978. The Stock Exchange of Singapore Limited has also granted admission for listing and quotation of

These warrants have been listed and quoted on the London Stock Exchange since their issue in 1973 and the additional listings of the warrants will facilitate dealings in these securities in the Malaysian and Singapore markets. A branch register and registration office for the warrants has been established with the company's registrars, Barbinder and Co. Sdn., 3rd floor Wisma Socfin, Jalan Semantan, Damansara Heights, Kuala Lumpur 23-03, Malaysia. Warrants dealt through the Kuala Lumpur Stock Exchange and The Stock Exchange of Singapore Limited should be directed to Barbinder

The Board of Consolidated Plantations Limited announced on 16th March. 1978, a bonus issue of three shares for each share held. This bonus issue is subject to the approvals of The Stock Exchange of Singapore Limited and shareholders at an extraordinary general meeting to be held as soon as possible. The listing of the bonus shares are subject also to the approval of the Stock Exchanges in Kuala Lumpur. Singapore and London, and the listing in the Kuala Lumpur Stock Exchange requires the prior approval

Conditional upon all the necessary approvals for the issue of bonus shares

being obtained, the subscription rights of the warrants will be adjusted according to provision B (1) (A) of the "particulars of warrants". The effect of the adjustment will be that upon exercise of subscription rights by warrant holders, they will be entitled to subscribe for four shares in

The subscription period will remain unchanged, that is, a holder of warrants shall have the right to subscribe for shares at any time during the period of one month following the date upon which the company despatches its accounts in respect of any financial period ending to and

Detailed provisions governing all other aspects of the warrants can be found at the back of the warrant certificate. The company has reproduced these particulars in printed form, which is available from the Secretary, Consolidated Plantations Limited, PO Box 157, Kuala Lumpur 01-02,

A copy of this announcement and a copy of the particulars of the warrants

After approval of the bonus issue by shareholders, warrant holders will also be advised of the effective date of the adjustment of their subscrip-

By Order of the Board

Wong Tet Onn

the warrants with effect from the same date.

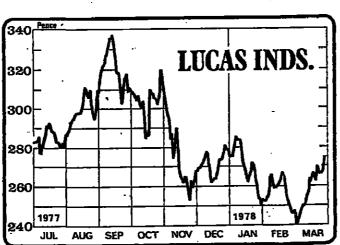
of the Malaysian Capital Issues Committee.

the company at 17.5p per share for each warrant held.

and Co. 5dn. for registration.

Account Dealing Dates
Option

First Declara- Last Account
Dealings from Dealings Day
Mar. 13 Mar. 31 M



gains of 1 arrong severed counon lones. Sterling's afternoon performance, however, aroused new worries of a possible hike in Minimum Lending Pare and dealers began defensively lowering.

Leading Stores failed to follow and dealers began defensively lowering. This continued after the generally eased a shade on light 330 p.m. close in both the short profit-taking. House of Fraser and longer maturities with the 145p sustained an above-average fell 7 to 113p following comment looking weak. The mood in liminary profits which came at 4 to 49 on disappointment with the annual figures.

Tuesday. Tubes, however, hardened 2 more to 378p. Elsewhere, APV. 4 better at 196p, reflected the higher annual earnings and longer maturities with the 145p sustained an above-average fell 7 to 113p following comment looking weak. The mood in liminary profits which came at 4 to 49 on disappointment with the annual figures.

Tuesday. Tubes, however, hardened 2 more to 378p. Elsewhere, APV. 4 better at 196p, reflected the higher annual earnings and longer maturities with the short profit-taking. House of Fraser lower at 196p, reflected the higher annual earnings and longer maturities with the 145p sustained an above-average fell 7 to 113p following comment of the results and Aurora shed looking weak. The mood in liminary profits which came at 4 to 49p on disappointment with the annual figures.

Corporations was also unsettled the top end of the expectations.

Plantations were featured by a rise of 5 to 90p in Highlands

Motor 5 to 93p.

In idle Newspaners. Thomson cheapened 2 to 208p in front of the day's preliminary figures but Associated Book Publishers were marked up a penny to 196p in response to the results. Mills and the London Metal Exchange

the joint management and trace union study on productivity together with the capital proposals failed to stir British Leyland which remained at 22b. Commer-indications from Tongaat that it was a state of the capital commer-indications from Tongaat that it is affect if the cial Vehicles showed little change might withdraw its offer if the apart from Plaxtons, 2 better at market did not cool down. Among apart from Flaxtons, 2 better at market did not cool down. Among other South African Industrials Service improved 1½ to 74p in Abercom eased 3 to 90p, but Garages. Occasional demand in a narrow market lifted Western for the year of 355n up 5 for the year of 5350, up 5.

influences led to gains of 9 to

ACTIVE STOCKS

Den Stock	No. nomina- of tion marks	Closing price (p)	Change on day	1977-78 bigb	1977-78 low
BP	£1 15	778	+ 4	8 61	720
RTZ	25p 12	200	+ 7	200	164
Reed Intl	£1 11	112	- 2	143	102
ICI	£1 10	362		363	. 328
BATs Defd	25p 9	260	– 1	265	227
Beecham	25p 9	643	+ 3	678	583
Britannia Arrow	25p 9	001	+ 11	25	19
Grand Met	50p 9	106	- 1 <u>1</u>	109	87
Burmah Oil	£1 8	47	. <u>-</u> -	57	44
Dunlon	50m 8	82	÷ 1	90	78
EMI	50p 8	151	i i	190	141
GKN	£1 8	277	- i	282	264
Marks & Spencer	25p 8	153		160	136
Midland Bank	£1 8	356	+1	390	330
P & O Defd	£1 8	974	1 ;	118	95
I L & O Deigr	±1 .0	212	T 1	119	23

RECENT ISSUES

EQUITIES

INSUIP	<u> </u>	1	38	78	Stork	<u>'</u> ∰\$÷	34 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4
Price	₹ 2 =	155	Ապր	Le-m		.}≤°	- 3 - 5 - 5
105	P.P.	26/4	121	118	Saga Holidays	. 121	6.75 2.2 8.4 8.5

FIXED INTEREST STOCKS

174	 	Letter tomun: Unite	18	78	Stock		۴.
25	1 5 5	1 g =	Кі:-Б	Leve	. Guez	-rater	ļ —
44		; <u> </u>	223 p	9112	Amai, Inds. 10.5% 2nd, Prf	9212	+1
£1		20,2	143	152	Automated See. of Cor. Cum. Pres	143	4 i
	I .F.	24,2	lub _i	100p	nation of York-hare 10% Cum. Prel	(Bizpod	
••	₹.P.	21.2	104	90n	Centreway 112 Cum. Pret	108년회	
£9812	P.P.	3/3	101	90 Ú,	Grampian Reg. 10; 1965	9914	
** T	P.P.	21/4	1030	10[::	Grampian Reg. 101 1985 Greenall Wintley 85 Pri	1010	
••	F.P.	28/4	1031	101 1 _{4 [1}	Jenk- & Cattell 10% Com. Pref	103 ₀	
£100	; F.P.	24.5	1063g	1001,	Ken-ington 2 Chesses 1122 sp-7	100; #	-4
6133	71	I — I	إلاناءا	li # J	Lekertor Variable 1982	100 IH	111000
	F.P.		10.14	102	Mul-oures Weser 72 Red. Prt. 1983	10217	
ře	F.P.	25:4	ku4	I.e	Pear-on (b.) 1012% Pty. Cav. La. 1985-8:	100	-2
-	P.P.	9/5	104p	97p	Pathex 11122 Cnv. Cns. Ln. 79-85	10514	
	4.P		100	99 · c	l'amende Variable 1985	100	
يا 99ي	·£60	28/4	الما الو	4710	Do. 1039 Red 34-5	DC3g	— lg
		14/4	118;	Hau	W. Bromwich Spring 11.5% Pri	118u	
I -	P.P.	24.2	libri	1031	Whitehouse (G.) 11% Cum. Pref	103	
	€85		2512	يار2	York Water 11% Deb. 1986	254	******
1							

"RIGHTS" OFFERS

					<u> </u>
esue Prace p:	Ancers paid us	Laten Renus: Date	1978 High Low	Stock	Prior
7J 25 5U 62	P.P. P.P. P.P. F.P.	13/3; 4/9 30/3 13/4 17/5 7/4 29/3; 10/5	31 29 15 65	Beaumont Properties. C. R. Industrials Vi Bury	87 1 30 +1 72 1 82 +2

thenulciation date usually last day for dealing free # stamp duty of Figure 0 and on prospectus estimate. O Assumed dividend and stell. O Figure 1 and of the fire of the fire

ings in London and Liverpool EZ Industries rose 10 to 145p.

Trust were suspended towards the In contrast, the recent strength of Northern Mining was reversed; official close at 19p pending an announcement. Estates Duties Investment Trust put on 5 to 270p, while Dualvest Capital hardened 3 to 197p. Investment currency the sharp downturn in overnight Sydney and Melbourne markets resulted in the shares being marked down 8 to 30p.

564p and 8 to 413p respectively Among London-registered in the sub shares of Robeco and Financials Rio Tinto-Zine were Rolinco. In Financials, R. P. active and advanced 7 to 2 high Martin dropped to 51p and closed of 200p in response to the firmof 200p in response to the firm-ness of base-metal prices. Gold Fields closed 3 higher at 183p de-8 down at 54p on the disappointing interim statement. Britannia Arrow firmed to 23p and ended 11 spite the lower bullion price.

Arrow firmed to 23p and ended 12 up on balance at 221p. Nippon
Fund Sterling gained 40 to 300p Golds was minimal and the fall
and Pretaball Sicomi 11 to 560, in the bullion price, which was
both helped by the firmer dollar finally \$1.50 capier at \$179.025 per P. & O. Deferred hardened a the firmer premium. Consenent to 97'n in otherwise easier quently share prices drifted and steady at 220n following the firmer produced a further 25 following the steady at 220n following the

the latter will be quoted ex the ever. A good investment usual the latter will be quoted ex the ever. A good investment usual trom both Cape and London sources left Union Corporation 4

the shares at 60p on Tuesday; news of the company's possible Interim profits expectedly lower but above best market estimates stimulated enthusiasm for Lucas stimulated enthusiasm for Lucas Industries which regained an early fall of 3 and closed a net 7 the lower stimulated enthusiasm for Lucas took on a firmer bias with Sala Northgate, which has a direct 24 to shape and Toray gaining 1 to advanced 25 to 310p.

steady at 220p following the lower Gold Mines index to 1529.

74.05 74.44 74.75 73.27 75.44 75.55 70.86 In lustras Uniterry..... 467.7 468.1 460.1 460.5 462 6 4nd 3 419.4 158.9 155.4 157.7 156.8 152.5 141.3 123.0 5.77 5.77 5.86 5.86 6.85 5.79 5.38 Ont Die York...... Sarnings L'id & (fuild") 17.04 17.05 17.62 17.29 17.25 17.02 16.94 8.24 8.24 8.11 8.12 8.15 8.24 8.88 Desting-market, 5.045 8.061 4.233 5.462 5.826 5.273 6.444 PiE Batto (art) ("11......" Equity hereales heat. - 19,907-14,526 14,720 14,997 18,559 19,984 10 a.m. 467.6. 11 a.m. 464.9. Norm 484.0. 1 p.m. 467.5. 2 p.m. 467.7. 2 p.m. 467.6. 2 p.m. 467.7. 2 p.m. 467.6. - Rasked on 22 per vent, corporation tax. S.E. ACTIVITY HIGHS AND LOWS Since Compilation High Los High Lon 455.4 549.2 49.4 tim Figure 175.8 (154.17 150.44) Individual 171.2

OPTIONS TRADED

Goal Mine. 168.6 130.5 442.5 45.5 production 51.2 51.9 (c.5) (c.5) (c.1) (C.5) (c.1) (C.5) (c.1) (C.5)

497.3 (6.1)

INSURANCE (2)

MOTORS (2) NEWSPAPERS (3)

PAPER & PRINTING (1) PROPERTY (3)

SHOES (1) SOUTH AFRICANS (1) TEXTILES (3)

0115 (3) OVERSEAS TRADERS (2)

NEW LOWS (24)

First Last Last For Deal- Declara- Settle- ings ings tion ment Mar. 21 Apr. 10 Jun. 22 July 18 Apr. 25 May 9 July 20 Aug. 1
For rate indications see end of Share Information Service
Call options were traded in Northern Mining, Mills and Allen International, Consolidated Put was arranged in H. Wigfalt, Gold Fields, Spillers, Sellocourt,

NEW HIGHS AND LOWS FOR 1978

NEW RIGHS (140) ENGINEERING (3) Christy Bros. LOANS (T) AMERICANS (24) CANADIANS (8 BANKS (7) BUILDINGS (9) CHEMICALS (6)

DRAPERY & STORES (4) Martin (R. P.) ELECTRICALS (2) ENGINEERING (12) INDUSTRIALS (16)

MINĘS (2) East Rand Cons. Novemetal

RISES AND FALLS YESTERDAY

	Ųρ	Down	Sam
British Funds	-	67	1
Corpus., Dom and Foreign Bonds	. 3	27	5
industriais	363	174	71
Financial and Prep	154	54	300
Oils	7	5	2
Plantations	•	2	23
Mines	52	45	4
Recent Issues	4	5	10
Tetals	571	474	1,44
		_	

FT—ACTUARIES SHARE INDICES

These indices are the joint compilation of the Financial Times, the Institute of Actuaries and the Faculty of Actuaries

PS & SUB-SECTIONS parentheses show number of stocks per section TAL GOODS (170) ing Materials (27). acting Construction (25). icering Contractors (14). anical Engineering (71). s and Metal Forming (17). UMER GOODS ABLE) (32). ectronics, Radio TV (15). ehold Goods (12). s and Distributors (25). anical Supplies (14). electronics (25). anical Supplies (14). electronics (25). anical Supplies (14). BUMER GOODS DURABLE (176). eries (14).	202.91 182.66 322.47 436.89 287.93 161.20 163.18 186.42 227.13 168.92 115.56	Day's Change % -0.3 -0.1 +0.3 -0.7 -0.6 +0.5 +0.3 +0.1 +0.3	Est. Enrunes Yield% (Max.) Corp., Tm 57% 17.66 17.30 17.83 15.44 17.43 19.20 19.14 18.33 16.03	5.76 5.72 4.00 4.11 7.02 6.39 8.48	Est. P/E Ratio (Net.) Corp Tar SN. 7.96 8.34 9.24 7.86 7.18 7.01	Index No. 203.47 182.82 321.41 433.92 288.63	Index No. 200.73 189.89 317.94 425.66	181.22 318.32	Index No. 201.16 182.73 318.31	Inde: No. 165.4 140.6 234.2
ing Materials (27). acting Construction (25). acting Construction (25). acting Contractors (14). anical Engineering (71). s and Metal Forming (17). UMER GOODS ABLE) (32). acting Contractors (14). acting Coops and Distributors (25). UMER GOODS DURABLEK (176). Tries (14).	182.66 322.47 436.89 287.93 161.20 163.18 186.42 227.13 168.92 115.56	-01 +03 -0.7 -0.2 -0.6 +0.5 +0.3 +0.1	17.30 17.83 15.44 17.43 19.20 19.14	5.72 4.00 4.11 7.02 6.39	8.34 8.36 9.24 7.86 7.18	182.82 321.41 433.92	189.89 317.94 425.66	181.22 318.32	182.73 318.31	140.6
acting, Construction (25)	322.47 436.89 287.93 161.20 163.18 186.42 222.13 168.92 115.56	+0.3 -0.7 -0.2 -0.6 +0.5 +0.5 +0.1	17.83 15.44 17.43 19.20 19.14	4.00 4.11 7.02 6.39	8.36 9.24 7.86 7.18	321.41 433.92	317.94 425.66	318.32	318.31	
ricals (15) cering Contractors (14) cering Contractors (14) s and Metal Forming (17) s and Metal Forming (17) CMER GOODS ABLE) (52) certronics, Radio TV (15) chold Goods (12) s and Distributors (25) CMER GOODS DURABLEK (176)	436.89 287.93 161.20 163.18 186.42 227.13 168.92 115.56	-0.7 -0.2 -0.6 +0.5 +0.3 +0.1	15.44 17.43 19.20 19.14	4.11 7.02 6.39	9.24 7.86 7.18	433.92	425.66			234.2
cering Contractors (14) anical Engineering (71) s and Metal Forming (17) UMER GOODS ABLE) (52) ectronics, Radio TV (15) ehold Goods (12) s and Distributors (25) UMER GOODS DURABLEN (176)	287.93 161.20 163.18 186.42 227.13 168.92 115.56	-0.2 -0.6 +0.5 +0.3 +0.1	17.43 19.20 19.14 18.33	7.02 6.39	7.86 7.18			1 426 12		
anical Engineering (71) s and Metal Forming (17) UMER GOODS ABLE) (32) ectronics, Radio TV (15) ehold Goods (12) s and Distributors (25) UMER GOODS DURABLEK176	161.20 163.18 186.42 227.13 168.92 115.56	-0.6 +0.5 +0.3 +0.1	19,20 19,14 18,33	6.39	7.18	200.02			424.66	322.9
s and Metal Forming (17) UMER GOODS ABLE) (32) Petronics, Radio TV (15) Petold Goods (12) s and Distributors (25) UMER GOODS DURABLEN176	163.18 186.42 227.13 168.92 115.56	+0.5 +0.3 +0.1	19.14			162 18	-284.73		284.34 168.20	235.4
UMER GOODS ABLE) (32) ectronics, Radio TV (15) ehold Goods (12) s and Distributors (25) UMER GOODS DUBABLEN176	186.42 222.13 168.92 115.56	+9.3 +0.1	18.33	~~		162.37	160,82 160,89		161.61	149.4
ABLE) (\$2) ectronics, Radio TV (15) ehold Goods (12) s and Distributors (25) JUMER GOODS DURABLE(176)	227 13 168.92 115.56	+0.1			1.01	102.31	100.67	1227.22	107.07	144.4
ectronies, Radio TV (15) shold Goods (12) s and Distributors (25) UMER GOODS DURABLEN176 eries (14)	227 13 168.92 115.56	+0.1		5.09	7.92	185.81	183,38	184.21	186.52	149.7
ehold Goods (12) s and Distributors (25) UMER GOODS DURABLEK(176)	168.92 135.56		1005	3.81	9.01	221.88	217.78		223.80	171.5
s and Distributors (25) UMER GOODS DUBABLE((176)	115.56		16.92	7.26	8.22	168.46	168.30		166.10	149.1
UMER GOODS DUBABLE(176)		+0.6	22.27	6.59	6.62	114,84	113.91		114.84	95.9
eries (14)	196.71] - "- <i>"</i>		:	1	
		-0.4	16.09	5.90	8.60	197.48	194.01	194.11	194.27	159.7
14 1 14	227,29	-0.5	14.36	5.85	10.55	228,41	225.77	227.61	227.82	173 2
and Spirits (6)	254.40	! — .	15,87	5.65	9.55	254.33	249.60	259.77	249.60	1728
tainment, Catering (17)	248.36	-0.4	13.88	6.86	10.46	249.32	244.28		245.45] 195.1
Manufacturing (22)	187.84	l —	21.13	5.80	6.68	187.84	183.37		184.62	171.7
Retailing (16)	191.85	-0.2	14.33	4.76	-10.07	192.26	199.56		189.21	166.0
papers, Publishing (13)	326.95	-0.7	10.28	3.88	14.46	329.34	330.52		327.45	247.2
ging and Paper (15)	126.91	-0.4	21.00	9.27	6.84	127.41	125.47	1	126.17	130.1
is (39) les (25)	185.56	-0.5 0.6	10.44 21.59	4,28 7,86	14.08 5.74	186.53 172.42	182.05 169.42		182.06 168.48	137,8
cos (3)	233.30	-0.6	23.69	8.02	5.02	234.79	232.79		231.88	153.9 211.1
and Games (6)	100.61	-0.3	20.08	5.89	6.66	100,90	189.12		101.52	87.6
R GROUPS (97)	186.76	+0.1	17.31	5.93	7.61	186.58	184.28		185.62	167.1
icals (19)	260.00		19.24	6.67	733	260.11	257.02		257.83	2295
naceutical Products (7)	245.59	+0.8	11,45	4.07	11.05	243.68	240.50	240 10	201.35	0.9
Equipment (6)	127.36	-0.9	19.06	4.89	6.16	128.45	126.25	124.65	129.02	96.7
ing (10)	426.21	-0.5	23.10	6.88	5.13	428,21	428.11		435.81	460.7
llaneous (55)	194,42	+0.1	17.43	6.37	7.82	194.19	191.46		193.12	169 7
STRIAL GROUP (495)	201.65	-0.2	16,92	5.82	8.13	202.05	199.02		199.84	1581
) <u></u>	453.97		16.61	4.36	6,83	454.06	448.71		451 18	440,0
TARE INDEX	222,74	-02	16.88	5.60	7.91	223.12	219.88		220.83	190.2
NCIAL GROUP(100)	166.55			5.48		166.57	165.00		166.51	134.7
unt Houses (10)	190.26	+0.3	25.58	5.66	5.94	189.76	185.67		184.32 201.80	156.3 176.5
Purchase (5)	189.43 151.01	-0.1 -3.5	12.96	8.72 5.30	11.43	189.54 156.50	192.41 154.78		153.88	1243
ance (Life) (10)	140.38	-85	12.70	615	11.45	141.06	140.15		140.96	1883
ance (Composite) (7)		+03	1 =	6.45	l = 1	138.33	130.00		131:53	105.9
ance Brokers (10)		+0.7	14.17	4.27	10.23	339.18			343.23	287.2
	77.20		1							67.7
ant Banks (14)	235.39	-0.6	2.84	2.94	67.34	236.81			236.95	179.4
ant Banks (14)	104.53	_	24.99	7.59	5.54	104.51			106.48	86.0
ant Banks (14)	188.72	+0.5	3.39	5.05	29.54	187.85	185.77		184.29	171.3
rty (31)	93.77	+2.3	16.63	6.25	-7.00		89.90		88.73	96.30
rty (31)	I === 4=	+0,7	16.92	6.97	7.36	279.65	278.29		279.36	266.69
tant Banks (14) rty (31) illaneous (7) ment Trusts (50) g Finance (4) cas Traders (19)	<u> 281.62</u>	-0.1		5.59	_				205.00	176.5
ı	ant Banks (14)	ant Banks (14) 77.20 cty (31) 235.39 laneous (7) 104.53 ment Trusts (50) 188.72 (Finance (4) 93.77 sas Traders (19) 281.62	ant Banks (14) 77.20 +0.1 -0.1 -0.6 -0	ant Banks (14) 77.20 +0.1 -1.05 (25) 3.9 -0.6 2.84 [laneous (7) 104.53 - 24.99 [laneous (7) 188.72 +0.5 3.39 (Finance (4) 93.77 +2.3 16.63 28 Traders (19) 281.62 +0.7 16.92	ant Banks (14) 77.20 +0.1 - 6.23 (15) (21) 1 235.39 -0.6 2.84 2.94 (16) 1 104.53 - 24.99 7.59 (17) 188.72 +0.5 3.39 5.05 (17) 188.72 +0.5 3.39 5.05 (17) 18.72 +0.5 3.39 5.05 (17) 18.72 +0.7 16.92 6.77 (16) 18.72 +0.7 16.92 6.77	ant Banks (14) 77.20 +0.1 - 6.23	ant Banks (14) 77.20 +0.1 - 6.23 - 77.12 (15/31) 235.39 -0.6 2.84 2.94 67.34 236.81 laneous (71 104.53 - 24.99 7.59 5.54 104.51 ment Trusts (50) 188.72 +0.5 3.39 5.05 27.54 187.85 (Finance (4) 93.77 +2.3 16.63 6.25 7.00 91.70 las Traders (19) 281.62 +0.7 16.92 6.97 7.36 279.65	ant Banks (14) 77.20 +0.1 - 6.23 - 77.12 77.02 (15) (15) (15) (15) (15) (15) (15) (15)	ant Banks (14) 77.20 +0.1 - 6.23 - 77.12 77.02 76.73 (15) 11 235.39 -0.6 2.84 2.94 67.34 236.81 234.20 236.04 12 104.53 - 24.99 7.59 5.54 104.51 104.39 104.	ant Banks (14) 77.20 +0.1 - 6.23 - 77.12 77.02 76.73 76.95 (15) (15) (15) (15) (15) (15) (15) (15

FIXED INTEREST PRICE INDICES			FIXED INTEREST YIELDS Br. Govt. Av. Gross Red. Thurs. Mar. 30	Wed Mar 29	(9) (1257) 200 7'64(
Br	ritish Government	Thurs Mar. 30	Day's change	xd adj To-day	xd adj. 1978 to date	Low 5 years	7.83 29 13 10.65	491 1848 1159
1 2	Under 5 years	108.14 119.56	-0.16 -0.46	-	247	Medium 5 years 10.03 Coupons 15 years 11.27 25 years 11.45	9.95 11.20 11.38	935 1125 1283
3	Over 15 years	125.91 140.64	-0.49 -0.68	-	3.24	Righ 5 years 10.36	10.27 11.99 12.25	18.18 12.36 12.66
5_	All stocks	117.34	-0.36	<u> </u>	2.67	Irredeemables	10 45	11.02

		Thurs., Index No.	March 30 Yield 2	- Liarch	Tuesday Alarch 28	Thurs. March 25	Wei. Mareh 22	Tuesday March 21	March March 20	March	TILINO PBII J. 681
16	20-yr. Red. Deb. & Loans (15) investment Trust Prefs. (15) Coml. and Indi. Prefs. (20)	55.79	12.75	55.79	56.09	56.09	56,27	56.35	56.12	.56.17	49,50
† i	Redemption yield. Highs and lows . A new list of the constituents	recerd, (ane date	s and y	alues an	d consti	tuest ch	noges ar	e publisi	ned by 1	interview Courte

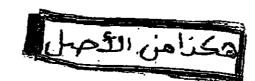
BUILDING AND CIVIL ENGINEERING

29th March 1978

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7 Fd Arc. 179 1 179 0 + 0 11	Hearts of Oak Benefit Society	Property Growth Assu: Leon House, Creydon, CRS 11. Property Fund 1752
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Fixed int 94 2 99 3 -1 9 - Prop Fd 96.0 101.2 +1.3 -	Fixed Int Ser. A. 900 99.0 -02 - Pas Mgd. Cap	Gill-Edged Fo (A) 125 0 •Retire Annulty 174 6 •Immed Aprity 138 5
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enr Accum. 96.9 102.0 —	Managed Fund 218 6 230 1 -	Prov Managed Fd 110.3 Prov Cash Fd 103.9 Gilt Fund 20
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ive Life Assur. Co. Ltd.\(\foats\) mbord St. EC3. Q1-623 1298 Hurse Mar. 1 127 17	Langham Life Assurance Co. Ltd. Langham Ha, Holmbrook Dr. NW4. 04303 5211	Equit Fd Mar 15 £22 98 Ftd 1ni Mar 15 £19,44 Prop. F Mar. 15 £24.59
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Current value March 29.	Legal & General Prop. Fd. Mgrs. Ltd	Prices on "Marc. tWeekly dealing
tal Life AssuranceV ton House, Chapel Ash Wron 0902 28511 nest Fd. 95.28	11 Queen Victoria St. EC4N 4TP 01-248 9678 L&Girp.Pd Mar 1 985 102.11	Schroder Life Group# Enterprise House, Portsmouth Equity Mar. 28
terhouse Magna Gp.V	Life Assur. Co. of Pennsylvania 39-42 New Bond St. W170RQ 01-60 8395 LACOP Units 1067 1057 -	Equity Mar. 28
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of Westminster Assur. Co. Ltd.	Exempt 1814 7.96 Lloyds Life Assurance 20, Clifton St. ECDA 4407	Money 3 Mar. 28 [116.7
tend House, 6 Whiteherse Road, on CRO 23.1 01-664 9664, Prop. Fund 1578 688		Property Mar. 28 151.8 Property 3 Mar. 28 148.8 BSPn Co Mar. 28 1190 BSPn Acc Mar. 28 128.4
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ty Fund	Gill Rond***	Sun Alliance Fund Mai Sun Alliante House, Horsham
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.B.N. Bank	64 %	# Hill Samuel 64%
liled Irish Banks Ltd.	61%	C. Hoare & Co 6100
merican Express Bk.	64%	Julian S. Hodge 71%
mro Bank	610	Hongkong & Shanghai 61%
P Bank Ltd.	816	Hongkong & Shanghai 61% Industrial Bk. of Scot. 61%
enry Ansbacher	4.45	Keyser Ullmann 61%
anco de Briban	6.40	Knowsley & Co. Ltd 9 %
ank of Credit & Unce.		Lioyds Bank 61%
ank of Cyprus	6,1%	London & European 8 %
ank of NSW	610	London Mercantile 61%
anque Belge Ltd	63%	Midland Bank 61%
anque da Rhone	7 %	Samuel Montagu 61%
arelays Bank .	6.0	■ Morgan Grenfell 61%
arnett Christic Ltd	27.0	National Westminster 6100
remar Holdmas Lid.	710	Norwich General Trust 6 0
rit Bank of Mid. East	64.5	P S. Refson & Co 6 5
rown Shiples	6: 7	Rossminster Accept'es 61%
anada Permanent AFI	6+16	Royal Bk. Canada Trust 64%
apitol C & C Fin. Lid.	800	Schlesinger Limited 61%
ayzer Ltd	7.	E. S. Schwab 81%
edar Holdings	× %	Security Trust Co. Ltd. 71%
harterhouse Japhet	6	Shepley Trust 91%
houlartons	61%	Standard Chartered 61%
E. Costes	73.05	Trade Dev. Bank 61%
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Martland House, Southerd SS1 Nr. 0702 63035

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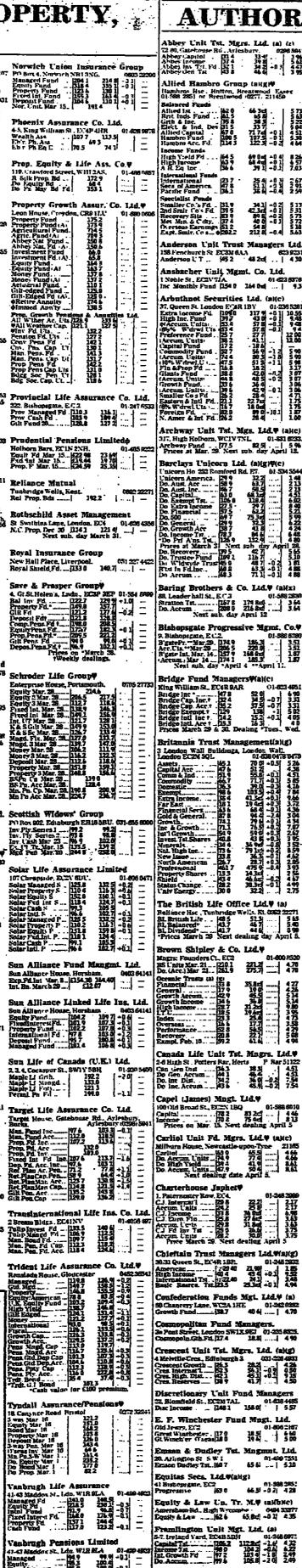
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INSURANCE BASE RATES

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Financial Times Friday March 31 1978 43 INDUSTRIALS—Continued INSURANCE—Continued PROPERTY—Continued INV. TRUSTS—Continued FINANCE, LAND—Continued 1928 1926 1927 1928 1932 1941 1942 1942 1942 1943 1943 1944 CTT GG'S P/E MINES—Continued | 1978 | 1978 | 1978 | 1978 | 1978 | 1978 | 1978 | 1978 | 1978 | 1978 | 1978 | 1978 | 1978 | 1978 | 1978 | 1978 | 1978 | 1978 | 1978 | 1978 | 1978 | 1978 | 1978 | 1978 | 1978 | 1978 | 1978 | 1978 | 1978 | 1978 | 1978 | 1978 | 1978 | 1978 | 1978 | 1978 | 1978 | 1978 | 1978 | 1978 | 1978 | 1978 | 1978 | 1978 | 1978 | 1978 | 1978 | 1978 | 1978 | 1978 | 1978 | 1978 | 1978 | 1978 | 1978 | 1978 | 1978 | 1978 | 1978 | 1978 | 1978 | 1978 | 1978 | 1978 | 1978 | 1978 | 1978 | 1978 | 1978 | 1978 | 1978 | 1978 | 1978 | 1978 | 1978 | 1978 | 1978 | 1978 | 1978 | 1978 | 1978 | 1978 | 1978 | 1978 | 1978 | 1978 | 1978 | 1978 | 1978 | 1978 | 1978 | 1978 | 1978 | 1978 | 1978 | 1978 | 1978 | 1978 | 1978 | 1978 | 1978 | 1978 | 1978 | 1978 | 1978 | 1978 | 1978 | 1978 | 1978 | 1978 | 1978 | 1978 | 1978 | 1978 | 1978 | 1978 | 1978 | 1978 | 1978 | 1978 | 1978 | 1978 | 1978 | 1978 | 1978 | 1978 | 1978 | 1978 | 1978 | 1978 | 1978 | 1978 | 1978 | 1978 | 1978 | 1978 | 1978 | 1978 | 1978 | 1978 | 1978 | 1978 | 1978 | 1978 | 1978 | 1978 | 1978 | 1978 | 1978 | 1978 | 1978 | 1978 | 1978 | 1978 | 1978 | 1978 | 1978 | 1978 | 1978 | 1978 | 1978 | 1978 | 1978 | 1978 | 1978 | 1978 | 1978 | 1978 | 1978 | 1978 | 1978 | 1978 | 1978 | 1978 | 1978 | 1978 | 1978 | 1978 | 1978 | 1978 | 1978 | 1978 | 1978 | 1978 | 1978 | 1978 | 1978 | 1978 | 1978 | 1978 | 1978 | 1978 | 1978 | 1978 | 1978 | 1978 | 1978 | 1978 | 1978 | 1978 | 1978 | 1978 | 1978 | 1978 | 1978 | 1978 | 1978 | 1978 | 1978 | 1978 | 1978 | 1978 | 1978 | 1978 | 1978 | 1978 | 1978 | 1978 | 1978 | 1978 | 1978 | 1978 | 1978 | 1978 | 1978 | 1978 | 1978 | 1978 | 1978 | 1978 | 1978 | 1978 | 1978 | 1978 | 1978 | 1978 | 1978 | 1978 | 1978 | 1978 | 1978 | 1978 | 1978 | 1978 | 1978 | 1978 | 1978 | 1978 | 1978 | 1978 | 1978 | 1978 | 1978 | 1978 | 1978 | 1978 | 1978 | 1978 | 1978 | 1978 | 1978 | 1978 | 1978 | 1978 | 1978 | 1978 | 1978 | 1978 | 1978 | 1978 | 1978 | 1978 | 1978 | 1978 | 1978 | 1978 | 1978 | 1978 | 1978 | 1978 | 1978 | 1978 | 1978 | 1978 | 1978 | 1978 | 1978 | 1978 | 1978 | 1978 | 1978 | 1978 | SHIPBUILDERS, REPAIRERS 64 | Hawthorn L. 50p. | 64 133 | Swan Bunter £1 | 133 135 | Vosper | 172 265 | Yarrow 50p | 265 AUSTRALIAN

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There is the convergence of t "Recent Issues" and "Rights" Page 40 This service is available to every Company dealt in on Stock Exchanges throughout the United Kingdom for a fee of £400 per annum for each security REGIONAL MARKETS The following is a selection of London quotations of shares previously listed only in regional markets. Prices of Irish issues, most of which are not officially listed in London, are as quoted on the Irish exchange. 51 |..... 22 |..... IRISH Conv. 9% '80/82. \$957/
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A selection of Options traded is given on the London Stock Exchange Report page

Northern attack on London

policy.

"We are very concerned at hy the political discussion about would produce an undesirable tingency reserve, of which nearly this move," he said. "Regional what should be offered shead of ratchet effect, establishing a per £250m, has already been compolicy is designed to create a a possible October election.

The assure Ministers want to

this move, he said. "Regional what should be offered shead of policy is designed to create a mossible October election.

The Treasury bases its view on and this Bill is against that the 1975 Social Security Act. There is believed to be considered industrial nation and this Bill is against that the 1975 Social Security benefits among ministers.

Is happening. The rules are should rise each year in line with being changed and we should be the increase in earnings or the increase in earnings or the increasing the rule are whichever is the greater.

Pressure

The Treasury believes the software cannot be cautious in child benefits in November prices, whichever is the greater. Should increasing the rule value is more likely to be accepted by the extra implied load on the tax posed rise in pensions.

In London, Mr. Hobbs was criticised for his comments and for a letter sent to the NEDC to all 40 northern MPS seeking their support in opposing the

Miss Shelagh Roberts. Tory leader of the GLC's planning and communications' policy committee, said that Mr. Hobbs was "talking through his hat." It was no longer the case that London was as prosperous as it had been. Parts of inner London have a higher rate of unemployment than that of the North East.

up with the facts as they are, log with intile uope of an early mediation could begin.

It is absolutely imporative that solution to the dispute affecting. Members of the wholesalers' national newspaper copies which business and commerce. I hope plies or an end to the engineers' for further talks on the refusal publishers.

has gone a long way towards Albert Booth. Secretary for A new formula aimed at avoid. A meeting of union national creating jobs for the assisted Employment, was unwilling to inc a breach of the Government area and chapel officers was said regions by steering firms away intervene at this stage because guidelines in the overtime claim to have produced no new pro-from the Midlands and the it could be "counter-productive" was presented by the union to posals for a return to work in South East in particular.

trolled and it is surprising that opposition should have emerged tion.

ing land, take a non-controlling equity interest in a firm, guarantee the rent of an industrial building and spend money on publicity.

Last night support for the action of the NEDC came in Newcastle from MPs of all parties, who said they would watch the Bill closely when it came up for third reading. Problem of urban decay, Page 12

Armed police kill two in

Higher pensions plan causes Cabinet split

BY PETER RIDDELL, ECONOMICS CORRESPONDENT

PROPOSALS TO increase pensions and some social security benefits nore than is legally required have led to a clash in the Cohinet.

By Anthony Moreton, Regional Affairs Editor

THE GREATER London Council was accused yesterday of trying to undernine the Government at the time of the would make it easier for companies to set up or expand within pagies to set up or expand of the North of England Development Council, said that the Greater London Govern Bill, which has been through committee and is nown in the gueue awaiting a third reading, made a mockery of regional policy.

"We are very concerned at this move," he said. "Regional that the formal this move, he said. "Regional this move, he said. "Regional that the formal this move, he said. "Regional that the formal this move, he said. "Regional this move, he said. "Regional this move in the cash move in the move i

Minister not ready to intervene in Fleet Street

BY PAULINE CLARK, LABOUR STAFF

the Government resists any action which has lost the Times of members of SOGAT to handle pressure to prevent us having copies this week.

Newspapers group some 3m. national newspapers for London distribution in support of an

these powers."

The Government is known to The Federation of London overtime claim.

The Government is known to The Federation of London overtime claim.

Wholesale Distributors appealed They then spent more than an to Mr. Len Murray general hour with the Newspaper Publishers' Assolication, but neither to poposed the clause in committee to persuade the Society of meeting produced plans or talks Graphical and Allied Trades, the with union leaders to-day.

Mr. Bill Keys, general secretaries of the distribution involved in the distribution of London overtime claim.

The Federation of London overtime claim.

They then spent more than an to the Newspaper Publishers' Assolication, but neither to persuade the Society of meeting produced plans or talks of the spent more than an to the Newspaper Publishers' Assolication, but neither to persuade the Society of meeting produced plans or talks of the spent more than an to the Newspaper Publishers' Assolication, but neither to persuade the Society of meeting produced plans or talks of the spent more than an to the Newspaper Publishers' Assolication, but neither to persuade the Society of meeting produced plans or talks of the spent more than an to the Newspaper Publishers' Assolication, but neither to persuade the Society of meeting produced plans or talks of the spent more than an to the Newspaper Publishers' Assolication and the Newspaper P opposed the clause in committee but was outvoted.

It is also unlikely to be happy about publicity being given to the Bill in the north. Ministers believe that their regional policy has gone a long way towards Albert Booth. Secretary for A new formula simed at avoid There was also no sign yester-with union leaders to-day.

Mr. Bill Keys, general secretor to the separate dispute involving to the Analyzamated Union of Engineering Workers an internal union meeting.

A new formula simed at avoid A meeting of union of union of union of an account.

Loans

Ironically the GLU's Fill strated life two years ago when the council was Labour con trolled and it is surprising that it surprising that it is surprised by the whole tion of The Times this week and it is is used of the Sunday Times.

"I am confident that a resurprise for it is surprised by the whole tion of The Times this week and it is part." Mr. Horrocks said.

Leyland has been holding distance that it is surprised by the that it is tha

Its clauses allow the GLC to damaging dispute which must be cent, increase on the overtime also been affected, although it build advance factories, make loans of up to 90 per cent, for that since the pay policy was the mise to talk about possible pro-chester editions.

THE Fleet Street labour crisis central issue, the Minister should ductivity arrangements. But it

to the negotiations now taking the employers' discussions

ment, for Government intervention. The federation stated last night and the Literary Supplement, that SOGAT members had The Guardian, which uses The Mr Prior referred to a "very already been offered a 10 per Times presses in London, has

an that of the North East.

"It is high time that we caught goes into its fifth day this morn-call the parties together so that refused to subsidise overtime, with the facts as they are, ing with little hope of an early mediation could begin payments for handling later is absolutely importative that solution to the dispute affecting. Members of the wholesalers' national newspaper copies which

£100-plus a week with overtime making up a significant part of their wage packet have already is part of the disputes procedure. There was also no sign yester-

he employers' discussions spile of a recent management. The NPA said after yesterday's offer to hold productivity talks.

Leyland tops U.K. market with **28%**

By Arthur Smith, Midlands

leadership of the U.K. market from Ford this month with more than 28 per cent, of total sales - a dramatic recovery from the 21 per cent. level at the beginning of the year.

announced what he termed the good news in London last night. But he went on to give a warning of the long-term danger to Europe's

his comments about "the Japanese onslaught" and raised the prospect that Europe might have to erect some form of import restric-

laying down capacity for an additional 2.5m. cars, and Europe was probably the only market offering the real possibility of more sales over the next ten years.

Mr. Horrocks also posed the question of what would happen to the Continental motor indus-try as the American domestic manufacturers switched their enormous production capacity over to European-style models the interest of fuel economy.

the new wave of competition from the Japanese and the Americans then the European there were important areas and manufacture of common

common components.

LEYLAND CARS has regained Mr. Ray Horrocks, joint man-aging director of BL Cars,

native car manufacturers posed hy the Japanese and the American multi-nationals. He was particularly harsh in

Time would tell whether the Japanese would tell whether the Japanese would honour their present commitment to limit sales. But Mr. Horrocks suggested the Japanese were

Mr. Horrocks said he preferred to take on the Japanese in a free market. But, he added: "For too long, while Britain played to the rules, the Japanese have rigged the game so they could not lose and we could not win. So it may well he that Europe will be forced to fight off the Japanese onslaught with some form of Import restrictions."

"If we are to stand up to

manufacturers must work more closely together." he said. Companies did not need to sink their identities into an anonymous European car, but where manufacturers could pool resources for the design components, such as engines

Mr. Horrocks said for BL cars

the higgest problem would be to raise productivity to the level of its European competi-

Lucas fights its £11m. handicap in the Lucas half-time figures. Index fell 0.4 to 467.7 The drop of £7.1m. pre-tax to

THE LEX COLUMN

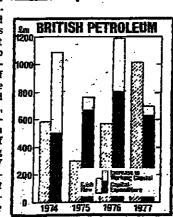
£27.6m. is more than explained by the £11m, cost of the toolmakers' strike last summer, and the Lucas share price was strong yesterday—at 275p it has regained a third of the 100p drop to 240p between September and the beginning of March. Confidence within the group has been largely repaired by the fast improving trend, which has led to internal estimates of sales and profits in February-the first month of the current half-year-being well up on the comparable 1977 figures, and the interim statement is talking cheerfully about recent firm demand being maintained. If operations continue to tick over smoothly there is a chance that Lucas will make good the shortfall during the was probably the real reason slackened to just 10 per cent. second half, which would require some £50m, before tax for 423p. February-July against £42.6m.

equipment in Europe is the key accompanied by a 2 per cent. sales).

factor. Leyland business is re- rise in profits while on the Like Woolworth, House recent output levels. The diesel sales. Fortunately, Reckitt's negotiated a 10 per cent. annual success story continues with North and South American pay increase last July. Howshortly. Against this back per cent of the profit improve ing sales increases of over 50 ground the virtual closing of ment. However, there is still per cent, the emphasis has now the tractor market in Turkey no real sign that Reckitt's switched to the provincial outabsorbed, though there have der drug" is paying off. been other weak spots in Aus tralia, South Africa and, of English Property course, the aerospace business.

Reckitt & Colman

pound. in common with a growing three, and up on last year.



In the U.K. margins were A strong demand for vehicle per cent. sales increase was £1.5m. surplus on proper covering some of its former Continent profits fell by £0.4m. Fraser has been keeping a tighvolume thanks to much higher despite a 20 per cent rise in control on operating costs ising component deliveries to business moved ahead well and ever, whereas last year it was the Peugeot and Citroen, while the along with Africa these three London stores that were setting W contract is due to start up areas contributed close to 90 the pace, with Harrods report-

net borrowings, at £532m., are provement. At 145p the shares no less than 8 times share. In 1976 Reckitt and Colman's holders' funds, against maybe 7 pre-tax profits jumped by 57 per times last year. Of this £149m. cent... helped by the falling must be repaid or refinanced. The oil majors' first dis-

Reckitt has decided to change quarter at £9.3m, and after tax cent. of its operating profits the rules, and instead of falling the improvement is still 20 per come from petroleum, with by 7 per cent. pre-tax profits cent. But that is only after tol- around 3 per cent. from-chemiare 13 per cent. higher at lowing the unusual accounting cals. Assets, by way of contrast, £57.9m. with the exchange rules widely adopted by the are elaborately broken down differences taken below the British property industry. For between production, tankers, re-line. In case this was not example, £20m. of interest has fineries. marketing and otherwise a dull performance, that it relates to development corresponding profit disclusures. Reckitt decided to say what it properties, while a £12m, deficit but when pressed BP will admit will do if dividend restraint dis- on the U.K. property valuation that it would be better off if it appears, and the promised 40 has also gone straight to the did not own any ships or operate per cent, increase in dividend balance sheet, as have extra any refineries.

£33m. deficit on Brussels office developments into the balance sheet: the report suffers a qualification from auditors Stor

Hayward as a result. Although capital commit-ments already contracted for amount to only £22;m. the EPC Board informs shareholders that it has additionally authorised £70m. for capital spending "when financial and other arrangements have been satis-factorily concluded."

House of Fraser

In common with Woolwort! which reported earlier thi month, House of Fraser ha. enjoyed a bumper fourth quarter. Although sales growth why the shares rose 10p to the final three months, pre-t. for the full year are £8.5m under severe pressure and a 14 ahead at £36.2m. (including a

has been fairly comfortably heavy investment in its "won-lets where sales volumes are now reportedly running around) a tenth higher in some cases. Consequently, House of Fraser's Cutting through the maze of healthy increase in the current Assuming profits close to last year, the prospective p/e could figures, the picture revealed by year but with two-thirds of the be little more than 7, on a full yesterday's annual report from tax charge, but the yield is far from encouraging. According to the group balance sheet the extent of the improvement of the shares.

This year the group's within the next five years. Even closures in the area of segmental pre-tax profits would have if the Canadian (Carena and reporting are proving distinctly fallen if the same accounting Trizec) activities are excluded tentative. BP, for example conventions had been used. But the horrowings multiple is over coyly flutters a veil in its annual tentative. report and reveals the devastatnumber of U.K. companies Pre-tax profits are up a ing information that 96! per

Bonn takes friendlier attitude to U.S. economic problems

Mr. Henry Owen, personal currency, assistant to President Carter, The pre-

TEHRAN. March 30.

A NEW WAVE of rioting and attacks on the police broke out in several parts of Iran to-day leaving at least two dead and seven wounded.

In Yazd, about 310 miles southful references to the involability of the alliance between the rioters breaking bank windows and stones. Reuter

Mir. Henry Owen. personal currency.

The problem which provoked the agenda with Count the problem which provoked assistant to President Carter, discussed the agenda with Count the mutual criticism carlier this would probably have to be which terreason why the growth figure reason why the growth figure reason why the growth figure revised.

Mr. Henry Owen. personal currency.

The problem which provoked the agenda with Count the month's action of Parliamentary ceverage for connercial televitism carlier this would probably have to be well provide Parliamentary ceverage for connercial televitism of the multism carlier this would probably have to be will provide Parliamentary and belip provide Parliamentary and belip provide Parliamentary and follow, perhaps ceverage for connercial televitism carlier this would probably have to be will provide Parliamentary and inductation of what Bonn will do to help make.

Mr. Henry Owen. personal currency.

The BBC and IRN, the independent radio news service which transform why the growth figure provide Parliamentary and belip provide Parliamentary and follow, perhaps ceverage for connercial televities on what Bonn will do to help make.

Mr. Owen is unlikely to receive and inducation of what Bonn will do to help make the Americans have held for some and radio stations, yesterday and inducation of what Bonn will do to help make the Americans have held for some the month's action and radio stations, yesterday and inducation of what Bonn will do to help make the midication of what Bonn will do to help ma

Question time and Budget stars of 'Radio Commons'

BY RUPERT CORNWELL, LOBBY STAFF

BONN. March 30.

THE United States and West like the dollar, and the apparent could be achieved because of currency unrest since the 1978 targets are the star attractions of the initial phase of permanent sound broadcasting of the Commons.

Bonn in mid-July, "benign neglect" of the U.S. year's tough wage round, accompanied by strikes, as another assistant to President Carter, The problem which provoked cases why the growth figure and the Chancellors' April 11 Mr. Peter Hardiman-Scott, and the Chancellors' April 11 Mr. Peter Hardiman-Scott, and the Chancellors' April 11 Budget are the star attractions of the initial phase of permanent sound broadcasting of the Commons.

Mr. Henry Owen, personal currency. panied by strikes, as another reason why the growth figure by strikes as another reason why the growth figure product radio news service which strengthen the country's demonstration of the twice-weekly sessions of inaugural programme from the Prime Minister's question time Commons.

Mr. Peter Hardiman-Scott, but the Chancellors' April 11 Budget are the star attractions of the initial phase of permanent sound broadcasting of the Commons which starts on Monday. "part of the continuing reform the country and the Chancellors' April 11 Budget are the star attractions of the initial phase of permanent sound broadcasting of the Commons.

The BBC and IRN, the indeof Parliament and help the product radio news service which strengthen the country's demo-

Midlands, Channel Isles

Argyll, N. Ireland

burgh, Dundee, Glasgow, N.W.

Scotland

Bright, occasional rain later Wind S. to S.E., fresh or strong

Max. 10C (50F).

Rain at times, becoming

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plus a further 10 in the USA. So fly Air Canada all the way. Contact your travel agent now, or call Air Canada on: London: 01-759 2636 Glasgow: 041-332 1511



Continued from Page 1

City launches securities body

A markets committee is to be members' activities relating to members' activities relating to the securities industry.

In the task of reviewing existing out any bequired new ones. Membership of the committee will be drawn are the council, but with the lossible inclusion of other 120ple from the City interests 22presented on it.

In addition to the drawn of the council to three lay members' activities industry.

In addition to the members' activities relating to members' activities relating to the securities industry.

The organisations will also publicly recognise that such planned for so long, the Bank of the council with the said the project was that "this new supervisory body would be not in practice be ignored.

In addition to the organisations will also planned for so long, the Bank of the planned for so long, the Bank of the project was that "this new supervisory body would be not in practice be ignored.

In addition to the organisations will also planned for so long, the Bank of the project was that "this said the project was that "this new supervisory body would be to be invited from the foreign hanks in London and from bull also planned for so long, the Bank of the council will also planned for so long, the Bank of the council will also planned for so long, the Bank of the council will also planned for so long, the Bank of the council will also planned for so long, the Bank of the council will also planned for so long, the Bank of the council will also planned for so long, the Bank of the council will also planned for so long, the Bank of the council will also planned for so long, the Bank of the council will also planned for so long, the Bank of the council will also planned for so long, the Bank of the council will also the council will also planned for so long, the Bank of the council will also the council will also planned for so long, the Bank of the council will also the council will also planned for so long, the Bank of the council will also the council will also planned for so long, the council

ndustry by the new council vould, according to the Bank well in future carry out its existing Engladen yesterday, comprise ing investigatory and enforcement in the framinical and amendment in the consideration of proposed U.K. and ideration of proposed U.K. and if the Take-over Code and of any there codes and practices that lary be established.

A markets committee is to be extended and the council to carry out its existing and enforcement of the framinical and amendment in the council to carry out its existing and enforcement of the framinical and amendment in the council to carry out its existing and enforcement of the framinical and amendment in the council to carry out its existing and enforcement of the framinical and amendment in the council to carry out its existing and enforcement of the framinical and amendment in the council to carry out its existing and enforcement of the framinical and amendment in the conditions of the council to carry out its existing and enforcement of the framinical and amendment in the conditions of the council to carry out its existing and enforcement of the framinical and amendment in the conditions of the council has yet to be onto the consultative Committee of Accountancy Budies, the Confederation of British Insurance Association. In the council has yet to be onto the council of the council has yet to be

been, has yet to be formed, the will be a member from the Con- be a member ex-officio.

If ke-over a Panel already has sultative Committee of Accountions will also be invited investigation of cases of alleged properties and thought, may also have a represented on it:

If the control of the following arrangements for the farmer sultative committee of Accounting arrangements for the farmer sultative in sultative arrangement of the following investigation of cases of alleged misconduct within the securities include main-farmer arrangement of the following investigation of cases of alleged misconduct within the securities include main-farmer arrangement of the following investigation of cases of alleged misconduct within the securities include main-farmer arrangement of the following investigation of cases of alleged misconduct within the securities industry.

RAIN spreading from W., brighter later. Rather warm in parts of S. W., Wales, Isle of Man, S.W. Scotland London, S.E., E., Cent. N. Eng. brighter. Wind fresh to strong, land. E. Midlands, E. Anglia S. to S.E., veering S.W. Max. Bright, occasional rain later. 11C (52F).

Wind S., fresh or strong. Max. N.E. England, Borders, Edin Cent. S., N.W., S.W. England,

BUSINESS CENTRES

Outlook: Sunny periods showers in N. and W., more general rain later.

HOLIDAY RESORTS

